

## NOTE FROM THE EDITOR



**Professor Olusola John ADENIRAN**  
**DIRECTOR, Academic Planning**

It is with utmost pleasure and sense of fulfilment that I present the 2015/2016 Academic Session ANNUAL REPORT. It gladdens my heart that it has finally become a reality despite the numerous hurdles scaled to achieve this feat.

The Annual Report is a yearly publication of the Directorate of Academic Planning which was first published in print in the year 2012 during the tenure of the 5<sup>th</sup> Substantive Vice Chancellor, Prof. Olusola Oyewole and this year marks the end of his tenure.

Having gotten the reins of leadership as the Director of Academic Planning in February, 2017, the tradition had to be kept alive and this publication achieved despite the short delay.

The 2015/2016 academic session happened to be an unusually long one, given some breaks we have had to introduce in the course of the semesters. However, the year still had its abundant share of exciting activities and laudable achievements. Hence, we have crafted together this edition to highlight specific activities of the University which have made it a success by all standards in the fulfilment of its tripod mandates of teaching, research and extension services.

This edition started with a preamble which covers information about the University, her vision and mission statements, University logo and anthem, the University's Chancellor, the Governing Council, the past and present Vice Chancellors, University Management, Deans of Colleges, Directors of Institutes, Centres and Units and Heads of Departments and Units while the main body was discussed under chapters:

- 1. Major Activities**
- 2. Report from Colleges**
- 3. Report from Other Units**
- 4. Students' Enrolment and Staff Profile**
- 5. Research, Grants, Conferences, Staff Training and Development, endowments and Awards**
- 6. Physical Projects and**
- 7. Finance**

We express our appreciation to the University Management and particularly, the outgoing Vice-Chancellor, the Acting Vice Chancellor, Professor Ololade Ade Enikuomeshin and the Deputy Vice-Chancellor (Academics), Professor Oluyemisi C. Eromonsele for their support towards the production of the report. We recognize all individuals and groups of staff who have made useful submission for their dedication and unreserved cooperation. Professor Helen Bodunde's proof-reading is deeply appreciated.

I cannot but mention very specifically the very strong rapport we have shared in the Directorate of Academic Planning. A very big thank you to every member of staff in this amazing office that has contributed very significantly; particularly the Academic Planning Officers, both present and outgoing ones.

Finally we recognize the Almighty God as the source of life and wisdom behind this document.

**Professor Olusola John ADENIRAN**  
**DIRECTOR, Academic Planning**

## UNIVERSITY LOGO



### DESCRIPTION OF LOGO

<b>WHEAT:</b>	Symbolizes Agricultural Products
<b>ROCK:</b>	Symbolizes Olumo Rock of Abeokuta
<b>OPEN BOOK:</b>	Symbolizes Knowledge
<b>WATER:</b>	Symbolizes Water Resources/Fisheries
<b>GOLD COLOUR:</b>	Symbolizes Excellence
<b>GREEN COLOUR:</b>	Symbolizes Agriculture
<b>MOTTO:</b>	Knowledge for Development

## UNIVERSITY'S VISION AND MISSION

### *Our Vision*

To be a centre of excellence in knowledge generation for global development and the sustainability of an environmentally friendly society.

### *Our Mission*

- To build great leaders, found worthy in learning and character.
- To generate and advance knowledge through teaching, research and provision of excellent learning condition.
- To contribute to sustainable development through community engagement.

### *Core Value*

Excellence, Integrity, Global Relevance, Innovation, and Service to Humanity (EXIGIS)



## UNIVERSITY ANTHEM

1. We have a vision great and clear  
For the masses far and near  
A school of farming, science and skill  
To feed the land we'll till  
Research, test and learning  
For wisdom we're yearning

FUNAAB, FUNAAB, glory of our day  
Forward, upward, we shall ever stay  
Beacons of our fatherland  
To success we will sail  
Labouring, toiling onward we shall never fail.

2. The nature's secret we'll find  
As offering to mankind  
We're aiming at sound scholarship  
And academic leadership  
We've all needed potentials  
And basic essentials

FUNAAB, FUNAAB, glory of our day  
Forward, upward, we shall ever stay  
Beacons of our fatherland  
To success we will sail  
Labouring, toiling onward we shall never fail.



***PRESIDENT MUHAMMADU BUHARI***  
**Visitor**



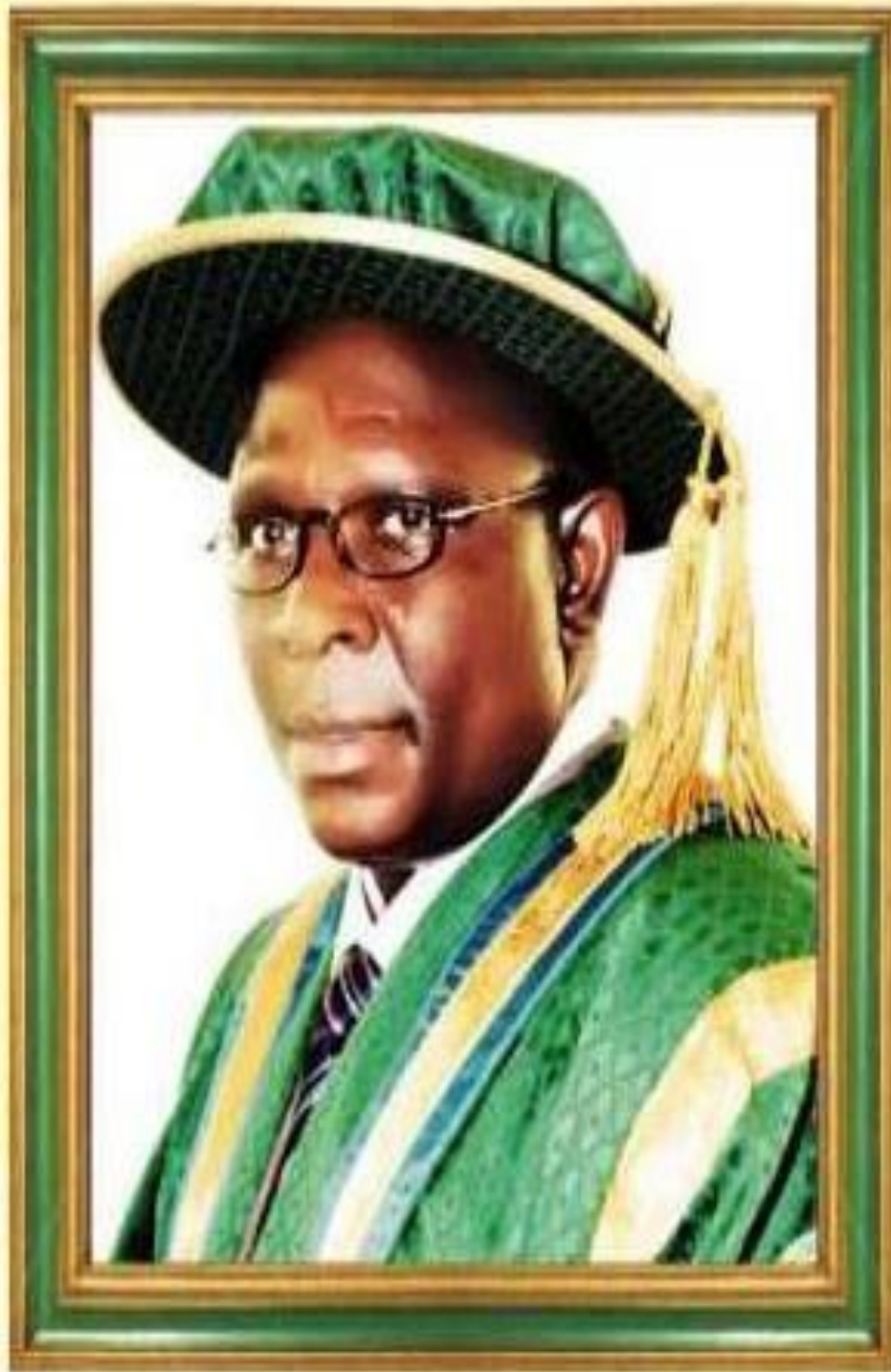
***MALLAM ADAMU ADAMU***  
**Honourable Minister of Education**



***HIS ROYAL EMINENCE, EDIDEM EKPO OKON, ABASI OTU V.  
The Obong of Calabar  
Chancellor***



***SENATOR/SIR (DR.) ADESEYE OGUNLEWE***  
***Fiwagboye of Ikorodu***  
**Pro-Chancellor and Chairman of FUNAAB Governing Council**



**Professor Olusola Bandele Oyewole**

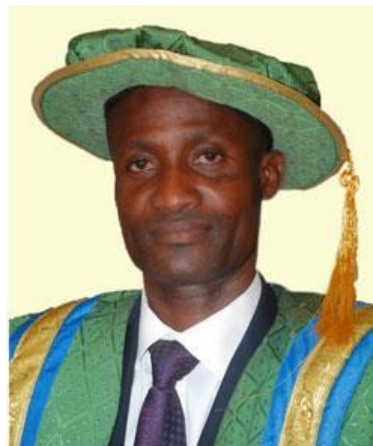
**Vice-Chancellor and Chairman of FUNAAB Senate**



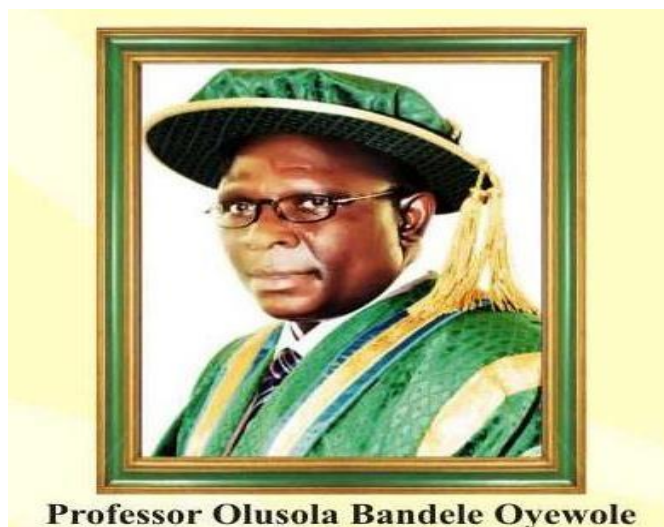
## PRINCIPAL OFFICERS OF THE UNIVERSITY



**Prof. Oluwayemisi Eromosele**  
Deputy Vice Chancellor (Academic)

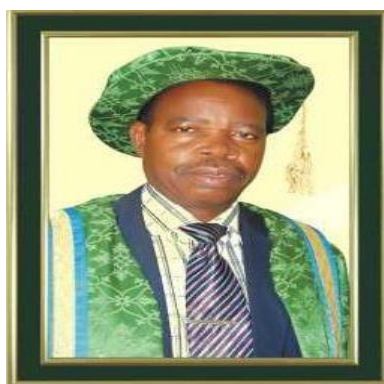


**Prof. Ololade Enikuomehin**  
Deputy Vice Chancellor  
(Development)



**Professor Olusola Bandele Oyewole**

Vice Chancellor



**Mr. Matthew Odunlade Ayoola**  
Registrar



**Dr. (Mrs.) Mulikat Salaam**  
University Librarian



**Mr. Moses Olusola Ilesanmi**  
Bursar

## PAST AND PRESENT VICE-CHANCELLORS



**Professor Nurudeen O. Adedipe**  
Vice-Chancellor, January 28, 1988-1995



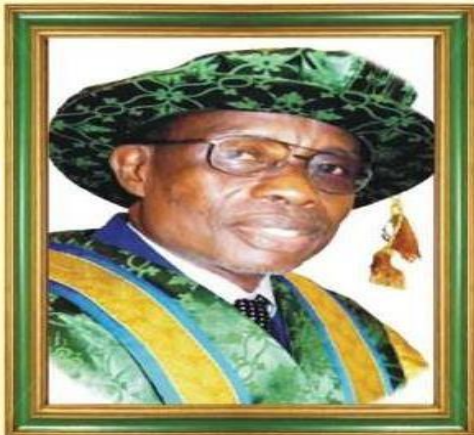
**Professor Julius A. Okojie**  
Acting Vice-Chancellor: 1995-1996  
Vice-Chancellor, 1996 -August, 2001



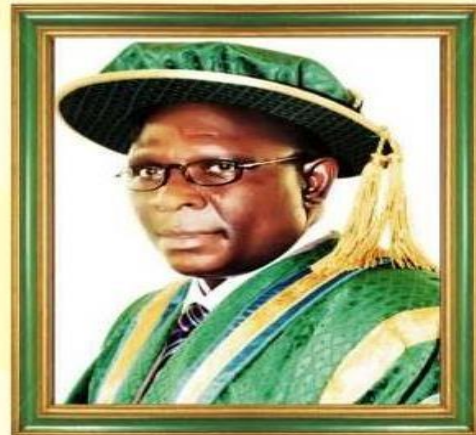
**Professor Israel Folorunsho Adu**  
Vice-Chancellor, September, 2001 - August 2006



**Professor Ishola Adamson**  
Acting Vice-Chancellor, September, 2006 - May, 2007



**Professor Oluwafemi Olaiya Balogun**  
Vice-Chancellor, May, 2007 - May, 2012



**Professor Olusola Bandele Oyewole**  
Vice-Chancellor, May, 2012 till date

## MEMBERS OF UNIVERSITY GOVERNING COUNCIL



Mr. Polycarp Shambo  
Rep. Fed. Min. of Educ.



Mr. Sola Tobun  
Rep. Convocation



Mrs. S.O. Oludiya  
Rep. F.M. Ind. T&I



Prof. Femi Otubanjo  
External member



Alhaji Abba Dasuki  
External member



Mr. Matthew Ayoola, JP  
Registrar



Prof. O.A. Enikuomihin  
DVC (Development)



Prof. C.O. Eromosele  
DVC (Academic)



Senator, Sir (Dr.) Adeseye Ogunlewe  
Chairman



Prof. O. B. Oyewole  
Vice-Chancellor



Mr. Moses Ilesanmi  
Bursar



Dr. Mrs. M. Salaam  
University Librarian



Prof. Olusiji Sowande  
Rep. Senate



Prof. C.O. Adeofun  
Rep. Senate



Chief Olukayode Akindele  
External member



Prof. C.O. N. Ikeobi  
Rep. Senate



Rt. Hon. Ghali Umar Na'Abba  
External member

# CHAPTER ONE

## 1.0 MAJOR ACTIVITIES

### 1.1 Yam Roasting Festival



The hosting of the Yam Roasting Festival by the University, to commemorate the annual harvest of new yams, has been described as a veritable mechanism of promoting and enhancing the Town and the Gown community relations.

The Vice-Chancellor, Professor Olusola Oyewole, stated this during the 2015 FUNAAB Yam Roasting Festival, held at the Directorate of University Farms (DUFARMS) premises. According to him, “We started this tradition of new yam festival many years ago in this University and suddenly the tradition stopped”, while lauding the support of a foremost industrialist and philanthropist, Chief Olusegun Osunkeye, for his support and encouragement in the resuscitation of the festival in 2012.

The Vice-Chancellor said the University’s mandate did not end only at training students, but by ensuring the overall development of the University, as well as those who relate with the institution. He added that FUNAAB was committed to the development and sustenance of the environment. He described the significance of the venue of this year’s event as very strategic, saying that it was done to create awareness about other crops that the University produces, apart from yam. “For the first time, we are organizing this year’s festival not on the outskirts of the farms, but right within the farm for people to know that it is not even yam alone that we deal with”. The Vice-Chancellor, who is also the President, Association of African Universities (AAU), said that the University was not only noted for teaching and research activities, it also runs an Industrial Park Unit (IPU), where the institution’s raw products are processed.

Speaking at the occasion, Chief Osunkeye, who is also the Chairman, Board of Directors, Nestle Nigeria Plc, said that he was passionate about the University and what it stood for. Reminiscing on the existing collaboration since 1988 with his 900-hectare farm situated in Kaduna State, he noted that Soyabean seeds were taken from his farm and planted in the University in a bid to boost crop production. Chief Osunkeye recalled that he once delivered the University's 10th Anniversary Lecture, as well as the 4th and 5th Convocation Lectures, saying the University exists for the advancement of humanity, as he further corroborated the Vice-Chancellor's remarks that encouraged fostering the Town and the Gown relations between the University and its host communities.



He challenged the University on the need to market the displayed products in the open market, saying that all the exhibited products should not be confined to the shelves.

Chief Osunkeye also decried the menace of cattle-rearers, who destroy agricultural farms, as he called for an end to the scourge. He charged the University to explore the possibility of using drones to monitor its territorial farmlands and engage in negotiation with those concerned, for amicable resolution of any conflict that may arise. He also suggested that the cattle-rearers should be integrated into the farming system by earmarking certain passage areas on the University map for their use.

In his own remarks, the Pro-Chancellor and Chairman, Governing Council of the University, Senator/Sir (Dr.) Adeseye Ogunlewe, called for better understanding and collaboration with members of FUNAAB communities, charging the University to concentrate more efforts at

establishing linkages with industries in order to create better awareness on what the University could produce for the public. Senator Ogunlewe, a former Minister of Works in the country, suggested that the University should convene a joint committee with the Ogun-Oshun River Basin Authority (OORBDA), Abeokuta, to promote sustainable linkage opportunities.

Highpoint of the event was the formal presentation of yam tubers, savouring of smoked yam with ‘bush-meat’ and the inspection of farm products on display. Present at the event were members of the University Governing Council, Principal Officers, Deans, Directors as well as Heads of Departments and Units. Others were the Managing Director of the Ogun Osun River Basin Development Authority (OORBDA), Engineer Akintunde Soyemi; General Manager, Paramount FM 94.5, Abeokuta, Mrs. Kemi Ajayi; among others.

## 1.2 FUNAAB Appreciates Former DVCs, Appoints New Ones



*The Pro-Chancellor and Chairman, Governing Council, Senator/Sir (Dr.) Adeseye Ogunlewe (3rd Left, Sitting); the Vice-Chancellor, Prof. Olusola Oyewole (Centre, Sitting); the out-gone DVC (A), Prof. Adekojo Waheed (2nd Right, Sitting); the out-gone DVC (D), Prof. Felix Salako (1st Left, Sitting); the DVC (A), Prof. Oluwayemisi Eromosele (3rd Right, Sitting); the DVC (D), Prof. Ololade Enikuomehin (Right, Sitting), with other external and internal Council members after the presentation of the Awards of Recognition to the out-gone DVCs*

The Vice-Chancellor, Professor Olusola Oyewole, has conveyed the gratitude of the Governing Council, Senate, Management, Staff and Students to the two Deputy Vice-Chancellors that have just completed their tenures in office, for their contributions to the development of the University. They are: Professor Adekojo Waheed, Deputy Vice-Chancellor (Academic) and Professor Felix Salako, Deputy Vice-Chancellor (Development). Until their appointments, Professor Waheed was the immediate past Director, Academic Planning, while Professor Salako was re-appointed as

Deputy Vice-Chancellor (Development) of the University. The former Deputy Vice-Chancellor (Academic) is a Professor of Thermofluids Engineering in the Department of Mechanical Engineering, College of Engineering (COLENG), while the former Deputy Vice-Chancellor (Development) is a Professor of Soil Physics and Soil Conservation, Department of Soil Science and Land Management, College of Plant Science and Crop Production (COLPLANT).



*The Pro-Chancellor, Senator/Sir (Dr.) Adeseye Ogunlewe (Right), presenting the Award of Recognition to the former DVC (A), Prof. Adekojo Waheed (Left).*



*The Pro-Chancellor, Senator/Sir (Dr.) Adeseye Ogunlewe (Right), presenting the Award of Recognition to the former DVC (D), Prof. Felix Salako (Left).*

Meanwhile, the former Deputy Vice-Chancellors have been honoured by the University's Governing Council, for their meritorious service with a charge that they should not allow the legacies of their efforts go down the drain. The charge was given by the Pro-Chancellor and Chairman, Governing Council, Senator/Sir (Dr.) Adeseye Ogunlewe, during the presentation of Awards of Recognition to the former DVCs, adding that they deserved to be honoured for their selfless and meritorious services to the University. The Pro-Chancellor then urged them to write their memoirs, by detailing their experiences and contributions to the university system for people to learn from.

Similarly, the University has approved the appointments of Professor Oluwayemisi Eromosele as the new Deputy Vice-Chancellor (Academic) and Professor Ololade Enikuomihin as the new Deputy Vice-Chancellor (Development). Professor Eromosele, who is the first female Deputy Vice-Chancellor in FUNAAB, was until the appointment, the Pioneer Dean of the newly-created College of Physical Sciences (COLPHYS), while Professor Enikuomihin was the immediate past Dean, Postgraduate School of the University.



*Newly-appointed Deputy  
Vice-Chancellor (Academic),  
Prof. Oluwayemisi Eromosele*



*Newly-appointed Deputy  
Vice-Chancellor (Development),  
Prof. Ololade Enikuomehin*

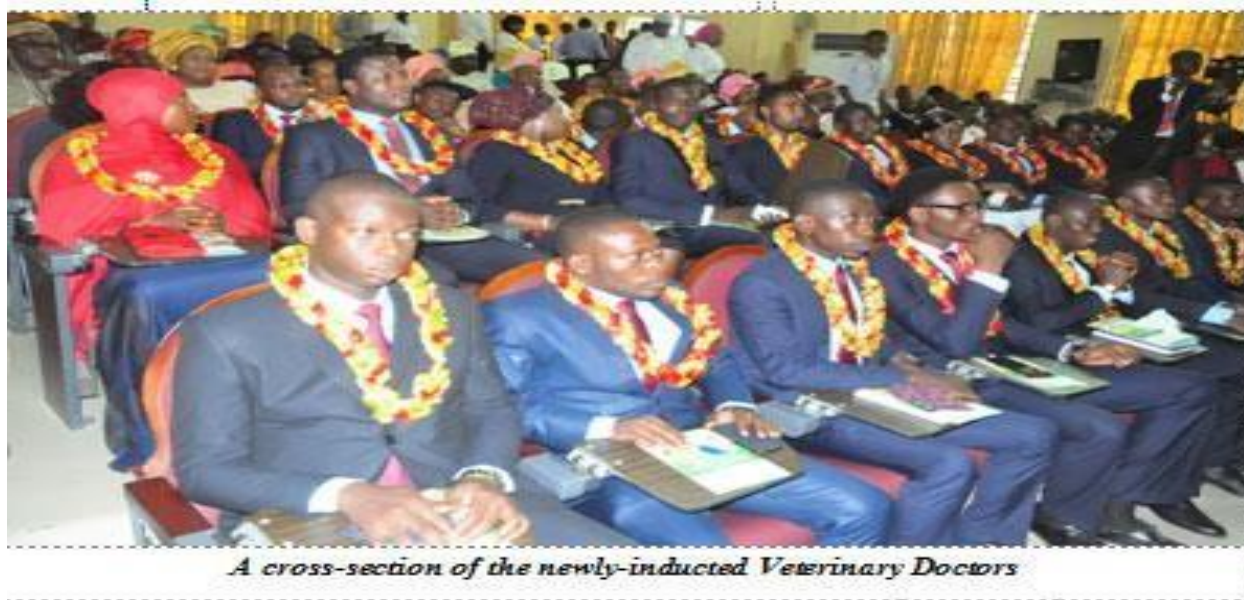
The new Deputy Vice-Chancellor (Academic) is a Professor of Industrial Chemistry. She bagged a Bachelor of Science degree from the University of Benin, Master's degree from the University of Manchester's Institute of Science and Technology (UMIST), United Kingdom and Doctorate degree from the University of Benin. Professor Eromosele is a fellow of several professional bodies such as the Institute of Chartered Chemists of Nigeria and Chemical Society of Nigeria. She is also a member of the Third World Organisation for Women in Science. She has held several administrative and academic positions within and outside the University. Some include: Chairperson, University Admissions Committee; Co-ordinator, Pre-degree Programme; Head, Department of Chemistry; Hall Warden, Iyalode Tinubu Hall; and Chairman, Students' Welfare and Hostel Management Committee. Professor Eromosele has supervised a number of undergraduate and postgraduate degree projects and published several journal articles and conference proceedings. Duties of the Deputy Vice-Chancellor (Academic) include, but are not limited to, all academic-related matters, academic policies, development, administration and review, coordination and academic oversight of educational activities of other campuses, as well as undergraduate and postgraduate course work programmes.

Professor Enikuomehin obtained his Bachelor of Science degree from the Bendel State University (now Ambrose Alli University), Ekpoma and Master's as well as Doctorate degrees from the University of Ibadan. Professor Enikuomehin was the Best Graduating M.Sc Student in 1990. He is a member of several learned societies, which include the Nigerian Society for Plant Protection, Organic Agriculture Project in Tertiary Institutions in Nigeria and the American Phytopathological Society. He has served the University in several capacities such as the Chairman, Committee of Deans and Directors; Member, University Governing Council; and Member, Anti-Corruption and Transparency Committee of FUNAAB. Professor Enikuomehin has supervised several graduate and postgraduate students and has published many books, monographs and journal articles.



The retreat was wrapped-up by the Director, Grants Management and the convener of the programme, Professor Kolawole Adebayo by coordinating the response section with a talk on “Strategic Options for Developing Grants-Winning Professors and Post Graduate Mentees”.

### 1.3 Induction Ceremony of New Veterinary Doctors



*A cross-section of the newly-inducted Veterinary Doctors*

The 8th Induction Ceremony and admission of Veterinary graduates into the profession, was held at the Veterinary Council of Nigeria (VCN) for the graduates, having successfully completed their course of study in the College of Veterinary Medicine (COLVET) of the University. The Vice-Chancellor, Professor Olusola Oyewole, charged the newly-inducted Veterinary Doctors to give back to the nation, their best in appreciation for the Federal Government’s gesture in training them above and beyond graduates of other disciplines. Earlier, the Dean of COLVET, Professor Babatunde Otesile, recalled the establishment of the College in March 2002, saying that the first set graduated in 2009. “Since the commencement of the DVM programme in FUNAAB, which was 14 years ago, our products have continued to do the University proud wherever they go”, he added.

Dr. Olawumi Funsho, a Senior Special Assistant to the Honourable Minister of Agriculture and the Guest Speaker at the occasion, represented by Dr. Olatunji Nasir, the Managing Director, Truthmiles Animal Hospital Lagos, encouraged the new doctors to have mentors, in order to guide them in their drive towards becoming entrepreneurs.

#### **1.4 FUNAAB Matriculates 3,827 Students for 2015/2016 Session**

A total of 3,827 newly-admitted students in the University have participated in the 2015/2016 Academic Session Matriculation Ceremony. Breakdown shows that the matriculated students spread across the 10 Colleges, as follows: College of Agricultural Management and Rural Development (COLAMRUD - 297), College of Animal Science and Livestock Production (COLANIM - 500), College of Engineering (COLENG - 218), College of Environmental Resources Management (COLERM - 408), College of Food Science and Human Ecology (COLFHEC - 308), and College of Plant Science and Crop Production (COLPLANT - 515).

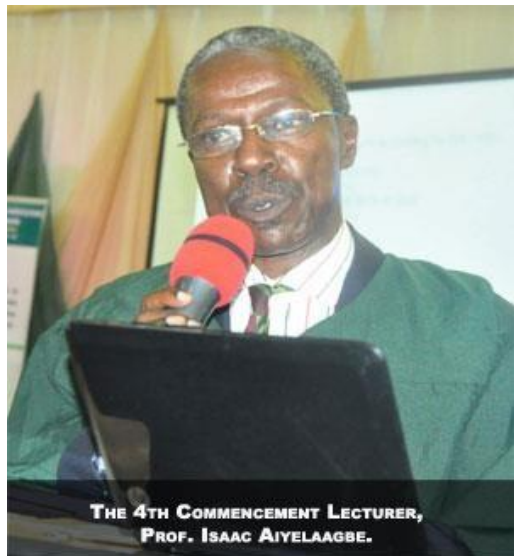
Others are: College of Veterinary Medicine (COLVET - 40), College of Management Sciences (COLMAS - 760), College of Biological Sciences (COLBIOS - 307) and College of Physical Sciences (COLPHYS - 474). The Vice-Chancellor, Professor Olusola Oyewole, congratulated the students on their admission, noting that the matriculation ceremony was the fourth he would preside-over as the Vice-Chancellor. He pointed out that the University had witnessed unprecedented growth and development in all ramifications as espoused by its founding fathers, stating that a total of 3,827 students were fortunate to be offered provisional admission, being the highest number in the history of the University. He assured the students that the University would continue to strive within the limits of the resources at its disposal, to make the environment conducive for serious academic activities while cautioning that FUNAAB has zero tolerance for cultism and other social vices.



*A cross-section of matriculating students at the occasion*

## 1.5 Commencement Lecture for 2015/2016 Session

The Fourth Commencement Lecture of FUNAAB was held during the Matriculation Ceremony,



which had Professor Isaac Aiyelaagbe, of the Department of Horticulture, College of Plant Science and Crop Production (COLPLANT) of the University as the lecturer. The Don challenged the newly-admitted students to win the race of academic excellence in a great University like FUNAAB that is renowned for its high standard. Delivering a lecture titled, “Running to Win: Is the Prize Worth the Price?”. Professor Aiyelaagbe likened university education to the world of an athlete involved in a competitive sports with the sole aim of winning the ultimate prize.

Giving tips on how to win the race, Professor Aiyelaagbe called on the students to have a dream and articulate that dream of running to win by setting a goal by determining to pay the price as success has a price tag and to maximise their time, listen to the ‘coach’, who are their lecturers, compete according to the rules as cheating was never an option, show perseverance and have faith in God, noting that unnecessary distractions were capable of making it impossible for the students to achieve their lofty goals in life.

## 1.6 2016/2017 Academic Session Pre-Admission Screening

The University held Pre-Admission Screening Exercise for short-listed candidates for the 2016/2017 Academic Session between Wednesday, 7th September, 2016 and Friday, 9th September, 2016.

The Vice-Chancellor of FUNAAB and President, Association of African Universities, Professor Olusola Oyewole, who was physically on ground to monitor the exercise, disclosed that the screening exercise was very important, to ensure that only responsible and qualified students, who would add value to the quality of the educational system were admitted, as he charged the prospective students to be up and doing, assuring all that they were in the right environment that would help them fulfill their destinies in life.



*Panel Chairman, Prof. Chryss Onwuka (3rd Left), with other members interviewing a prospective candidate during the 2016/2017 Pre-Admission Screening Exercise.*

On the necessary machinery put in place to ensure a successful screening exercise, the Deputy Vice-Chancellor (Academic) and the Chief Coordinating Officer for the 2016/2017 Pre-Admission Screening Exercise, Professor Oluyemisi Eromosele, said that buses were stationed at the Camp area as well as the University Main Gate, to convey students to the main centres namely: the FUNAAB Ceremonial Building, College of Management Sciences (COLMAS), Unity Building, Directorate of Public Relations as well as the College of Plant Science and Crop Production (COLPLANT). Professor Eromosele pointed out that of the 17,334 applicants that applied for admission into the University, only about 3,800 would eventually be admitted after conducting the exercise, both for the Unified Tertiary Matriculation Examination (UTME) and Direct Entry candidates that spread across the 10 colleges of the University because FUNAAB had a quota of 3,850, as approved by NUC for the past two years.

## **1.7 FUNAAB Hosts ICAN Accreditation Team**

The accreditation team from the Institute of Chartered Accountants of Nigeria (ICAN) recently visited the University to accredit the accounting programme in its College of Management Sciences (COLMAS). According to the team leader, Professor Ishola Akintoye, the main purpose of the visit was to assess the existing teaching aid and the environment being used for the teaching of accounting students with a view to granting ICAN accreditation to the Department of Accounting. He added that students from accredited institutions derive many

benefits from the institute such as: exemption from some stages of the professional examinations while registering, getting scholarships as first class students and being the best-graduating students with prize-money of N150,000, sponsorship for Ph.D programme and benefiting from the setting up of a research centre. Professor Akintoye advised that an Accounting Technical Scheme Tutorial Centre should be established in the University to enhance the performance and acceptability of FUNAAB accounting graduates in the labour market. Speaking earlier, the Vice-Chancellor, Professor Olusola Oyewole, represented by the Deputy Vice-Chancellor (Development), Professor Ololade Enikuomehin, appreciated the contributions of ICAN to the University, saying FUNAAB was always ready to collaborate with the institute to have a world-class Department of Accounting, by providing the needed enabling and conducive



*Representative of the Vice-Chancellor and the DVC (D), Prof. Ololade Enikuomehin (Left), receiving a souvenir from the ICAN's accreditation team leader, Professor Ishola Akintoye.*

environment. The Acting Dean of COLMAS, Dr. Jayeola Olabisi, disclosed that the visiting team applauded Miss Blessing Awobayo, a 300-level student of the department, for successfully completing her March, 2016 ATS examination in flying colours.

## **1.8 FUNAAB Receives Professor Okojie, Former VC in Grand Style**

It was a hearty and memorable home-coming for Professor Julius Okojie, the second substantive Vice-Chancellor of FUNAAB and the immediate past Executive Secretary, National Universities Commission (NUC), as members of the University community, led by the Pro-Chancellor and Chairman, Governing Council, Senator (Sir) Dr. Adeseye Ogunlewe; Council members; Management; Senate and other stakeholders accorded him a befitting reception with series of programmes.



*The Vice-Chancellor, Prof. Olusola Oyewole (Right), welcoming the immediate past Executive Secretary, NUC and former FUNAAB's Vice-Chancellor, Prof. Julius Okojie at the University's Ceremonial Gate.*



*The Alake and Paramount Ruler of Egbaland, Oba (Dr.) Adedotun Gbadebo (Right), discussing with the immediate past ES, NUC, Prof. Julius Okojie at his Palace, while the Vice-Chancellor, Prof. Olusola Oyewole watches.*

Professor Okojie was received by the University Governing Council, he attended a Special Senate Meeting in his honour and attended a reception held by the Academic Staff Union of Universities (ASUU), FUNAAB Branch. Members of the University community, Unions and Students had the opportunity to felicitate with Professor Okojie, at a reception held at the Ceremonial Building. He made a courtesy call on the Alake and Paramount Ruler of Egbaland, His Royal Majesty, Oba (Dr.) Adedotun Gbadebo and visited the University's Zoological Park and Garden and he attended the Food Expo at the Directorate of University Farm (DUFARMS)

## **1.9 Inaugural Lecture Series**

### **1.9.1 51st Inaugural Lecture**



**THE VICE-CHANCELLOR, PROF. OLUSOLA OYEWOLE (RIGHT), EXCHANGING PLEASANTRIES WITH THE 51ST INAUGURAL LECTURER, PROF. ADENIYI OLAYANJU AT THE OCCASION.**

The University has held its 51st Inaugural Lecture on Wednesday, March 9, 2016. During the Inaugural Lecture, the need for Nigeria to evolve sustainable local engineering designs that would

bring about rapid transformation was stressed. This was the submission of Professor Adeniyi Olayanju, an expert in Agricultural Mechanisation in the College of Engineering (COLENG) of FUNAAB. According to Professor Olayanju, the trio of man, material and machine constitute the wheels of a tricycle that would drive agricultural mechanisation. Therefore, the country needs to have good engineering designs that would be locally-based towards diversification of the non-oil sector.

Themed, “Man, Material and Machine: The Tricycle for Agricultural Mechanisation”, the Inaugural Lecture examined the three factors of production; man as a designer, material either plant or animal that exhibits characteristics that have to be understood before an efficient and effective machine could be built, in order to mechanise agriculture. According to the Don, the raw materials available in Nigeria, such as agro-allied or solid mineral, have peculiar characteristics and qualities, which only local engineers could discover and adopt to meet their design needs, as he made case for local engineering capacities in the design and fabrication of equipment and machinery for the processing of local raw materials.

## **1.9.2 52nd Inaugural Lecture**

The 52nd Inaugural Lecture of the University was given by Professor Kolawole Adebayo of the Department of Agricultural Extension and Rural Development, College of Agricultural Management and Rural Development (COLAMRUD) and the Lecture was titled, “Mercenaries and Merchants: The Dialectics of Rural Development in Nigeria”. The Professor of Rural Development Communication submitted during his lecture that for Nigeria to speedily attain national development, it should prioritize rural development because rural people represent a reservoir of untapped talent, a target group that should be given the opportunity to contribute meaningfully to the nation’s growth through improved education, health and nutrition. Recounting the travails of rural development and the role the mechanist played and dated as far back as the era of colonial administration, the Inaugural Lecturer, who is also the Director, Grants Management of FUNAAB, said “it was either accidental or designed to explore and exploit the resources of the rural areas, primarily for the benefit of others, but for the development of Europe, as resources were taken by deception or by force from the colonies to Europe, with the end result being that Europe and everything European became developed, while the rest of the world became second or third world”.



*Frontline: The Vice-Chancellor, Prof. Olusola Oyewole (3<sup>rd</sup> left); Alake and Paramount Ruler of Egbaland, HRM Oba (Dr.) Adedotun Gbadebo (4<sup>th</sup> Left); Former Vice-Chancellor, Professor Oluwafemi Balogun (5<sup>th</sup> Right); 52nd Inaugural Lecturer, Prof. Kolawole Adebayo (5<sup>th</sup> Left); FUNAAB top officers and Egba traditional chiefs after the lecture.*

Professor Adebayo argued further that political independence did not end the era of mercenaries' engagement in rural development in all the former colonies, as the emerging political elites continued exploiting the rural areas for the commodities that the colonial powers wanted every developmental intervention was tied to the availability of resources to exploit, rather than any long-term human development of the rural communities. According to him, the military regime, which took over from the political independence did not fare any better, as the fabric of development intervention became guided by cronyism and misapplication of national wealth for personal gains, a back seat for the return of popular democracy, which were filled with electioneering campaigns that were awash with empty promises of providing road, water, health centre and schools. The University Don pointed out that while the mercenaries, who perpetuated rural development over many centuries could claim glory for the unintended or accidental positions of their efforts, the shape and tune of the notion of rural development that followed at the evolution of rural development merchants, was intentional and for selfish motives. Defining a merchant to be a business person, who trades in commodities produced by others to earn a profit, the Inaugural Lecturer stated that for the purpose of the lecture, the term 'merchant' is operationalised by bearing in mind the profit motive as the main driver of a merchant's intervention in any business or activity.



## **1.10 Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI) Training For 2016**



*Participants registering for the Training*



*Cross section of participants during a Training session*

The Digital Bridge Institute (DBI), a subsidiary of the Nigerian Communication Commission (NCC), extended its cooperation with the University by offering its Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI) Training to one hundred and seven (107) FUNAAB staff between 29<sup>th</sup> February and 4<sup>th</sup> March, 2016 at the Federal University of Agriculture, Abeokuta Campus. The Academic Planning Unit had over the years facilitated the Digital Appreciation Programme for the academic and non-teaching staff of the University. The Training was designed to equip staff of tertiary institutions with basic ICT office productivity tools, including the intranet, internet, use of e-teaching and e-learning facilities as well as collaborations in course delivery at no cost to the participants. The overall goal of the training is to train the needed skilled manpower for the fast growing information and communication.

## **1.11 Activities of the University Senate**

The Senate is an important and crucial organ of the University. It formulates and implements policies that engender sustainable academic output for the University.

During the year under consideration, the Senate held two (2) Statutory and seven (7) Special meetings, where academic matters were deliberated upon and decisions were made.

Some of the decisions are as follows:

<b>S/N</b>	<b>Activity/Achievement</b>	<b>Date</b>
1.	Approval of Academic Calendar for Postgraduate School for 2015/2016 Academic Session	209th Statutory Senate meeting, 25th April, 2016
2.	Approval of Academic Calendar for Full-time Students for 2015/2016 Academic Session	209th Statutory Senate meeting, 25th April, 2016
3.	Approval of Academic Calendar for Part-time Students for 2015/2016 Academic Session	209th Statutory Senate meeting, 25th April, 2016
4.	Approval for facilitation of the establishment of a Police Station in the Communities adjoining the University Campus by the University Administration	Special Senate Meeting, 20th September, 2016

## **1.12 Admissions**

The University received applications from 17,646 candidates seeking admission into the Institution for the 2016/2017 academic session as the most preferred choice of University. Senate and Admissions Unit, through the Admissions Committee processed the applications in conjunction with the ICTREC conducted the Pre-Admission Screening Exercise. At the end of the process, 3,911 candidates were offered admissions into the various departments of the Institution as listed hereunder:

<b>S/N</b>	<b>College</b>	<b>Total Admitted</b>
1.	College of Agricultural Management and Rural Development (COLAMRUD)	362
2.	College of Animal Science and Livestock Production (COLANIM)	527
3.	College of Bio-Sciences (COLBIOS)	330
4.	College of Engineering (COLENG)	216
5.	College of Environmental Resources Management (COLERM)	398
6.	College of Food Science and Human Ecology (COLFHEC)	746
7.	College of Management Sciences (COLMAS)	746
8.	College of Physical Sciences (COLPHYS)	481
9.	College of Plant Science and Crop Production (COLPLANT)	473
10.	College of Veterinary Medicine (COLVET)	40
		<b>3,911</b>

## CHAPTER TWO

### 2.0 REPORTS FROM COLLEGES

#### 2.1 COLLEGE OF AGRICULTURAL MANAGEMENT AND RURAL DEVELOPMENT (COLAMRUD)

##### 2.1.1 Overview of the College

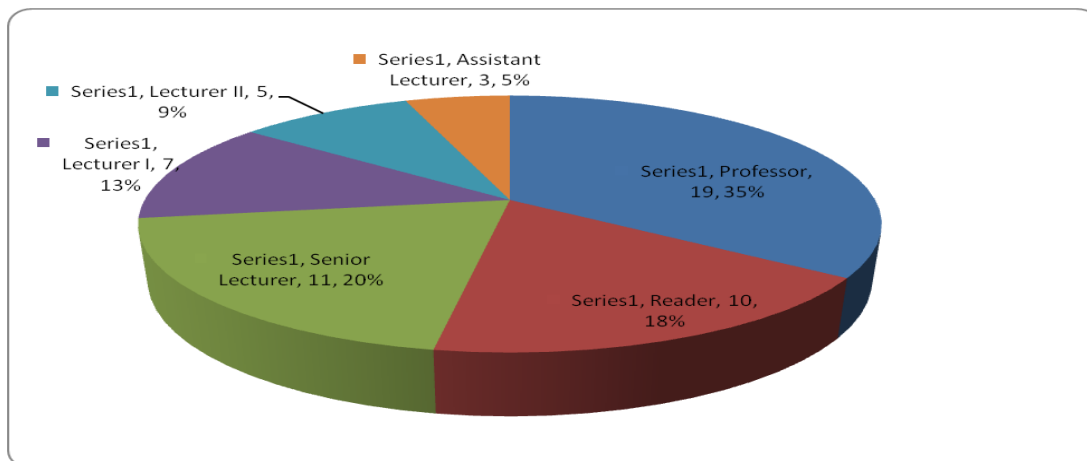
The College of Agricultural Management and Rural Development (COLAMRUD) was established to support in the training of students admitted for the Bachelor of Agriculture programmes being run by FUNAAB. The College as it is presently constituted comprises of four Departments namely; Agricultural Administration, Agricultural Economics and Farm Management, Agricultural Extension and Rural Development, and Communication and General Studies which is saddled with the responsibility for teaching General Studies courses in the University.



**Professor Bolanle Akeredolu-Ale  
Dean, COLAMRUD**

##### 2.1.2 Staff Profile and Student Enrolment in COLAMRUD

*Figure 2.1.2 Distribution of Academic staff in COLAMRUD*



### 2.1.3 Research output

*Table 2.1.3 Distribution of Academic Staff Publications*

Departments	Local		International	
	Journal	Conference	Journal	Conference
AEFM	14	13	8	2
AERD	16	12	9	6
AGAD	8	7	5	2
CGNS	15	25	10	9

### 2.1.4 Linkages and Partnership

Staff members collaborated with researchers both locally and internationally which include:

1. Professors B. I. Akeredolu-Ale and H. A. Bodunde had collaborations with the Centre for Learning and Teaching, Edge Hill University, United Kingdom.
2. Members of staff of Communication and General Studies collaborated with University of Cape-town, Cape-town South-Africa.
3. Members of staff of Communication and General Studies collaborated with Reading Association, South Africa.
4. Dr E. Fabusoro of the Department of Agricultural Extension and Rural Development collaborated with Prof. Makoto Maruyama of The University of Tokyo.
5. Professor A.M. Omotayo of the Department of Agricultural Extension and Rural Development had collaborations with WAAP and IITA.
6. Prof A.M. Omotayo of the Department of Agricultural Extension and Rural Development collaborated with Dr Claudia Ribeiro, EMBRAPA Brazil. Africa-Brazil Agricultural Innovation Project on Introduction and Participatory Evaluation of Improved Pepper Cultivars among small scale farmers in South western Nigeria.
7. Professor K. Adebayo of the Department of Agricultural Extension and Rural Development had collaborations with Prof Andrew Westby of the Natural Research Institute, University of Greenwich, UK on Cassava: Adding Value for Africa project

8. Dr Petra Abdulsalaam-Saghir of the Department of Agricultural Extension and Rural Development collaborated with Dr S. Fomba, National Agricultural Research Centre, Sierra-Leone, Prof Alexandre Dansi of the University of d'Abomey-Calavi, Benin Republic, Dr N.T. Dziedzoave, Food Research Institute, Accra, Ghana on Upscaling the Nigerian Flash Drying Experience for Sustainable Regional Trade and Income Generation in West Africa.
9. Dr C. I. Alarima of the Department of Agricultural Extension and Rural Development collaborated with Professor Matsunaga of the University of Tottori Japan.
10. Dr Petra Abdulsalaam-Saghir of the Department of Agricultural Extension and Rural Development collaborated with Prof Keith Tomlins of Natural Resources Institute, University of Greenwich, UK
11. Dr Petra Abdulsalaam-Saghir collaborated with Max Olupot of African Forum for Agricultural Advisory Services, Uganda

### **2.1.5 Grants and Awards**

1. Professor A. M. Shittu along with his project team which include Professor Oluwakemi Fapojuwo (AGAD), Dr. B. A. Senjobi (SSLM), Dr. T. O. FAbunmi (PPCP), Dr. D. Akerele (AEFM), Dr. R. A. Sanusi (AEFM), Dr. A. E. Obayelu (AEFM) and Dr. Elizabeth Oluwalana (AMREC) won a grant to the tune of 118,956 Euros by ECOWAS Regional Agency for Agriculture and Food (RAAF) under the Support Programme for Food and Nutrition Security in West Africa (PASANAO).
2. Dr. Adefunke Ayinde won two schorlships by the Association of Commonwealth Universities (ACU), UK in association with Africa Academy of Sciences to attend the 18th International Conference on Agricultural and Farming Systems (ICAFS, 2016) in Cape Town, South Africa and Climate Impact Research Capacity Leadership Enhancement She also w (CIRCLE) workshop on Female proposal writing held at Africa Academy of Sciences (AAS), Nairobi, Kenya.
3. Professor Oluwakemi E. Fapojuwo won an award by the Australian government to participate in a short course training programme on increasing the development impact of

agricultural research at the University of Nairobi, Kenya between 17 October to 18 November, 2016.

4. The Department of Agricultural Extension and Rural Development was selected to participate in the Capacity Building for Agricultural Extension in Nigeria sponsored by the Swiss Government.
5. Dr Olubunmi R. Ashimolowo was selected for the Cheric Blair Foundation's Mentoring Women in Business Programme.
6. Professors K. Adebayo and E. Fabusoro won a research grant on improving performance of cassava industry in West and Central Africa, Funded by IFAD.
7. Mrs Olusola A. Arowolo of the Department of Agricultural Economics and Farm Management won the Chinese Government Scholarship for her Ph.D programme in China
8. Dr A. E. Obayelu of the Department of Agricultural Economics and Farm Management won a Bursary award by the United Nations Children's Fund (UNICEF) to attend the first Nigerian Association of Evaluator at the Transcorp Hilton Hotel Abuja, 16-19 November, 2015.
9. Dr A. E. Obayelu of the Department of Agricultural Economics and Farm Management won a Travel grant award from African Growth & Development Policy (AGRODEP) Consortium to attend tzzzhe Tropentag 2015 Conference at Humboldt-Universität zu Berlin, Germany September 16 - 18, 2015.
10. Dr A. E. Obayelu of the Department of Agricultural Economics and Farm Management won a Travel grant from the United Nations University Institute for Natural Resources in Africa (UNU-INRA) in Collaboration with the African Climate Policy Centre (ACPC) of the United Nations Economic Commission for Africa (UNECA) to attend a "Methodological Workshop on Climate Change, Agricultural Trade and Food Security for ECOWAS" at Accra Ghana, April 06-10, 2015.
11. Professor T.O.A. Banmeke of the Department of Agricultural Extension and Rural Development won a research grant to the tune of One Million Four Hundred and Seventy Two Thousand Naira only from FUNAAB DGM 2015 Research Grant.
12. Dr (Mrs) Onifade of the Department of Communication and General Studies won a research grant to the tune of One Million Four Hundred Thousand Naira only from FUNAAB DGM 2015 Research Grant.

## 2.1.6 Trainings and Workshops

The College organised the 4<sup>th</sup> COLAMRUD Lecture Series titled "Facilitation Skills: Panacea for Successful Meetings, Workshops and Adult Training" which was delivered by Professor M. T. Ajayi of the Department of Agricultural Administration.

**Table 2.1.7 Students' Statistics**

S/ N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL			
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
	COLAMRUD																						
1	AEFM	64	30	94	73	35	108	64	44	108	56	46	102	72	57	129	0	0	0	329	212	541	
2	AERD	51	40	91	73	31	104	77	34	111	60	32	92	86	46	132	0	0	0	347	183	530	
3	AGAD	43	37	80	64	15	79	47	47	94	59	33	92	70	33	103	0	0	0	283	165	448	
4	CGNS			0			0			0			0			0	0	0	0	0	0	0	
	Sub-Total	158	107	265	210	81	291	188	125	313	175	111	286	228	136	364	0	0	0	959	560	1,519	

**Table 2.1.8 Statistics of Promoted Staff in COLAMRUD**

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	COLAMRUD							
1	AEFM	2	0	1	0	1	0	0
2	AERD	2	1	0	0	0	0	0
3	AGAD	1	0	0	0	0	0	0
4	CGNS	0	1	1	1	0	0	0
	SUB TOTAL	5	2	2	1	1	0	0

**Table 2.1.9 Publications, Grants, Seminars and Conferences**

PUBLICATIONS					
S/N	COLLEGE/DEPT	SEMINAR/ CONFERENCE.	RESEARCH		
			NO OF PUB	GRANTS	HONOURS
	COLAMRUD				
1	AEFM	27	37	6	0
2	AERD	28	42	4	0
3	AGAD	15	22	2	0
4	CGNS	40	59	1	0

**Table 2.1.10 Staff Disposition**

S/N	COLLEGE/ DEPARTMENT/ UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
1	COLAMRUD						
1	AEFM	12	5	1	1	1	0
2	AERD	11	5	1	2	1	0
3	AGAD	5	3	0	0	0	1
4	CGNS	6	8	0	0	0	2
	SUBTOTAL	34	21	2	3	2	3

## 2.1.11 DEPARTMENT OF AGRICULTURAL ADMINISTRATION

### 2.1.11.1 Introduction

The Department of Agricultural Administration was established in 2009 as one of the 4 Departments in the College of Agricultural Management and Rural Development. The Department offers programme leading to the award of Bachelor of Agriculture (Agricultural Administration) degree.

The mandate of the Department is to teach and conduct research in all aspects of agricultural administration and to contribute to the development of our immediate environment.

### 2.1.11.2 Achievements of the Department:

The Department's postgraduate curriculum was approved at the University Curriculum committee in October 2014 and by the University Senate in 2015. The first set of the Departmental postgraduate students resumed in the 2014/ 2015 academic session with six postgraduate diploma and six Masters Students. Also, the Department got full accreditation from the National University Commission (NUC) in 2015.

### 2.1.11.3 Conferences and Trainings attended by staff in 2016

1. Dr. R. A. Oyeyinka and Dr. S. O. Ayansina attended the 21<sup>st</sup> AESON annual conference on Repositioning Agricultural Extension for Sustainable Agricultural Development and National Economic Regeneration at University of Ibadan between 17 – 20<sup>th</sup> April, 2016. It was self sponsored.
2. Prof. O. E. Fapojuwo, Dr. K. K. Bolarinwa and Dr. B. G. Abiona, also attended 21<sup>st</sup> AESON Conference at University of Ibadan, Ibadan. It was sponsored by the University Local Conference Fund.
3. Dr. R. A. Oyeyinka, Dr. S. O. Ayansina and Dr. S. O. Adeogun attended the 25<sup>th</sup> annual



conference of Rural Sociological Association of Nigeria (RUSAN) on Conflict – Peace Building and Rural Development at Federal University, Oye-Ekiti between 9<sup>th</sup> – 12<sup>th</sup> October, 2016. It was sponsored by the University Local Conference Fund.

4. Dr. K. K. Bolarinwa, also attended the 25<sup>th</sup> RUSAN annual conference at Federal University, Oye-Ekiti in October, 2016. This was self sponsored.
5. Dr. S. O. Ayansina attended CYIAP conference in March 2016 at University of Ilorin. This was self sponsored.
6. Dr. A. F. O. Ayinde attended a conference on Agricultural and Farmings (ICAFS 2016) held in Cape Town South Africa from November 3 – 4. This was sponsored by Association of Commonwealth Universities (ACU)
7. Dr. A. F. O. Ayinde attended a workshop on Climate Impact Research Capacity Leadership Enhancement (CIRCLE) Female Proposal Writing held at the Africa Academy of Sciences, Nairobi, Kenya in February, 2016. This was sponsored by the Association of African University (ACU).
8. Prof. O. E. Fapojuwo participated in a short course training Programme on Increasing the Development Impact of Agricultural Research at University of Nairobi, Kenya between 17 October – 18 November, 2016. This was sponsored by Australia Awards Africa short course.
9. Dr. R. A. Oyeyinka, Dr. A. F. O. Ayinde & Dr. S. O. Ayansina attended a training Programme on Advanced Digital Appreciation Programme for Tertiary Institutions between 29 February – 4 March, 2016 at the Federal University of Agriculture, Abeokuta. This was sponsored by Nigerian Communication Commission (NCC).

#### **2.1.11.4 List of Publications (accepted and published)**

1. Oyeyinka, R. A. & Bolarinwa, K. K. (2016): Factors Influencing Job Performance of Agricultural Teachers in selected Secondary Schools in Abeokuta metropolis Nigeria. *Journal of Agricultural Science and environment (Formerly ASSET; An International Journal (Series A) Volume 16, Number 2, 2016*
2. Adekunmi, O. A., Oyeyinka, R. A., Awoyemi, A. O., Ayansina, S. O. (2016); Comparative Economic Analysis of Rainy and Dry Season Maize Production Among Farmers in Ekiti State, Nigeria. *European Journal of Business Management, Published by International Institute of Science Technology & Education (IISTE), New York, USA*
3. Bolarinwa, K. K., Ayinde, A. F. O. and Adeogun, S. O. (2016): Stress Coping Strategies among Agricultural Extension Agents in Oyo State, Nigeria. *Journal of Agricultural Extension Society of Nigeria. Vol. 20(1) Pp 163 – 173*

4. Adeogun, S. O. (2016): Analysis of Labour Shortage Effects on stress level of Employees in Oyo State Agricultural Development Programme (OYSADEP). *Journal of Extension System*.
5. Adeogun, S. O., Ayansina, S. O. & Bolarinwa, K. K. (2016). Analysis of Farmers Business School (FBS) Training Effects on cocoa Farmers Record Keeping Practices (PKPs) in Southwest Nigeria. Moor Journal Publication, Obafemi Awolowo University. Ile-Ife, Nigeria.

## **2.1.12 DEPARTMENT OF COMMUNICATION AND GENERAL STUDIES**

### **2.1.12.1 List of Publications (accepted and published)**

1. **Adeyoyin, S.O.**, Agbeze-Unazi, F., Oyewunmi, O.O., Adegun, A.I. and Ayodele, R.O. (2015): Effects of Job Specialization and Departmentalization on Job Satisfaction among the Staff of a Nigerian University Library. *Library Philosophy and Practice*. 17 (10). Published by University of Nebraska, Lincoln. (USA) Available online at <http://digitalcommons.unl.edu/libphilprac/1295>
2. **Adeyoyin, S.O.** and Oyewusi, F.O. (2015): A Survey of the Needs and Utilization of Health Information among Young Adults in Abeokuta, Ogun State, Nigeria. *Library Philosophy and Practice* 17(12). Published by University of Nebraska, Lincoln. Available online at <http://digitalcommons.unl.edu/libphilprac/1296> (USA)
3. **Adeyoyin, S.O.**, Alawiye, M.K. and Akintunde, B.O. (2015): ICT Equipment Ownership and Utilization among Postgraduate Students of a University of Agriculture: A Study. *International Journal of Library Science*, 13 (3); 48-60. Published by Ceser Publications. (INDIA) Available online at <http://www.ceserp.com/cp-jour/index.php?journal=ijls>
4. **Adeyoyin, S.O.**, Alawiye, M.K., Fasanu, C.I., and Kolajo, F.S. (2016), Awareness and Use of Solar Energy as Alternative Power Source for ICT Facilities in Nigerian Library and Information Centres. *Journal of Information Engineering and Applications*. (USA)
5. **Adeyoyin, S.O.**, Idowu, T.A. & Sowole, A.O. (2016), Awareness, Access, and Use of Electronic Information Resources among the Seminarians in Nigeria, *Journal of Religious & Theological Information*, 15:1-2, 1-18, DOI: 10.1080/10477845.2015.1085780. Available online at <http://dx.doi.org/10.1080/10477845.2015.1085780>. (UK)
6. **Ajebomogun, F.O.** & Fagboola, O. (2015): Electronic Resources Access and Usage as Predictors of Scholarly Research of Post Graduate Students of Federal Universities of Agriculture, Abeokuta. *Journal of Information and Knowledge Management*, 5 (5); 142-149. Available online at [www.iiste.org](http://www.iiste.org) Published by World Scientific Publishing. USA.
7. **Ajebomogun, F.O** & Ajebomogun, V.O. (2015): A Study of School Library Resources for Reading Interest of Secondary School Students in Ogun State, Nigeria. *Middle- Belt Journal of*

*Library, Archival and Information Science*, 13 (2); 89-105. Published by Department of Library and Information Science, University of Ilorin, Ilorin.

8. Bamigboye, O.B., Aramide, K.A., Bakare, O.D., Nduka, S.C. & **Ajebomogun, F.O.** (2015): Funding Academic Libraries in Nigeria: A Case Study of Tertiary Education Trust Fund (TETFund). *Benue Journal of Library and Information Science*, 5 (1); 81-88. Published by Department of Library and Information Science, Markudi.

9. **Ajebomogun, F.O** & Ajebomogun, V.O. (Mrs.) (2015). Library Service delivery, Information Literacy Knowledge: A Modeling Factor for and Societal Growth. *Nigerian Libraries*, 48 (1); 51-66. Published by Nigerian Library Association (NLA).

10. **Ajebomogun, F.O.**, Okunlaya, R.O.A. (Mrs.) & Alawiye, K.M (Mrs). (2016). Analytical Study of E-learning Resources in National Open University of Nigeria. *Education and Information Technologies*. The Official Journal of the IFIP Technical Committee on Education. (Online) DOI 10.1007/10639-016-9548-z

11. **Ajiboye, B.A.**, Alegbeleye, G.O., Okonedo, S., Oyedipe, W.J., Emmanuel, S.O., and Alawiye, M.K. (2016). Records management practices in the administration of the Church of Nigeria (Anglican Communion). *Records Management Journal*, Vol. 26 Published by Emerald Group Publishing UK. Available at :<http://www.emeraldinsight.com/journal/rmj>.

12. Bankole, O. M., **Ajiboye, B.A.**, and Otunla, A.O. (2015). Use of Electronic Information Resources by undergraduates of Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. *International Journal of Digital Library Services Vol. 5 (4), October-December, 2015 pp1-14. ISSN: 2250-1142 (Online), ISSN 2349-302X (Print)*. Published by GEETANJALI Research Publication. P.O. Box 127, Punjab, India. Available at: [www.ijodls.in/issu.html](http://www.ijodls.in/issu.html)

13. Alawiye, M. K., Amusa, O. I. **Ajiboye, B. A.** and Adegbaye, S. (2016). Awareness, Use and perceived influence of electronic resources on studies among students of Federal University of Agriculture, Abeokuta, Nigeria. *Journal of Applied Information Science and Technology*, 9 (2) (2016) ISSN: 22141-1913 (Online). Published by Information Technology Application Group (ITAG) International. Available at: [http://www.jaistonline.org/vol9no1\\_2016.html](http://www.jaistonline.org/vol9no1_2016.html)

14. Okunlaya, R. A, **Amusa, O. I** and Ogunlana E.K (2015) Challenges of Internet Use among the Postgraduate Students of Social and Management Sciences in Olabisi Onabanjo University, Nigeria. *Information and Knowledge Management*, Vol. 5 (5), pp. 128-134, available at [www.iiste.org](http://www.iiste.org). USA

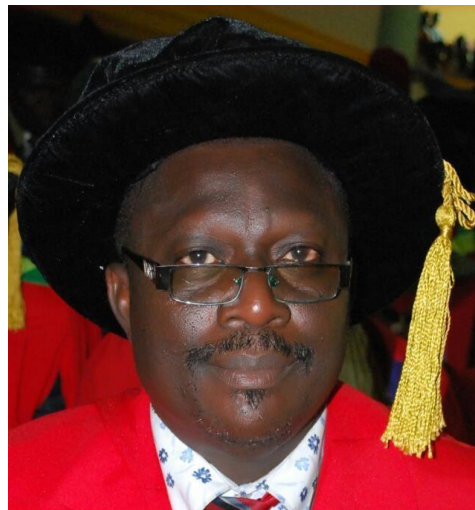
15. Bello, T. O. **Amusa, O. I**, Omotoso, A. o, and Osunrinde, O. A. (2016). Influence of Information Literacy Skills on Information Needs and Use among Banking Personnel in Ogun, state Nigeria. *Library Philosophy and Practice* (e-journal) 1389. Published by the University of Nebraska-Lincoln University, U.S.A. Available online at <http://digitalcommons.unl.edu/libphilprac/1389.USA>

- 16.** Omotoso, A. O, **Amusa, O. I**, Bello, T. O, and Lateef, E. B. (2016). Records Management and Practice in Motor registration and Licensing Offices in South-west Nigeria. *Journal of Applied Information Science and Technology*, Vol. 9 (1), pp. 102-112. Published in University of Nigeria, Nsukka.
- 17.** **Amusa, O. I.** and Atinmo, M. (2016). Availability, level of use and constraints to use of Electronic Resources by Law lecturers in Public Universities in Nigeria. *Italian Journal of Library and Information Science*, vol. 7 (3). Available online at [10.4403/jlis.it-11955](http://10.4403/jlis.it-11955). Italy
- 18.** Alawiye, M. K, **Amusa, O. I**, Ajiboye, B. A. and Adegbeye, S. (2016). Awareness, use and Perceived Influence of Electronic resources on Studies among the Students of Federal University of Agriculture, Abeokuta. *Journal of Applied Information Science and Technology*, vol. 9 (2). Published in University of Nigeria, Nsukka.
- 19.** **Onifade, F. N** (2015) Knowledge Sharing among Librarians in Federal University Libraries in Nigeria. *Information and Knowledge Management*, 5(3) 91- 97. Available on [www.iiste.org](http://www.iiste.org) (Published by the International Institute for Science, Technology and Education, New York, USA)
- 20.** Oyewunmi, O.O, Alegbeleye, G.O, and **Onifade, F. N** (2015) Information and Communication Technology (ICT) and Its Effect on Newspaper Utilisation in University Libraries in Nigeria. Available on [http:// library.ifla.org/1254/1/080-oyewumi-en.pdf](http://library.ifla.org/1254/1/080-oyewumi-en.pdf). (Presented at the International Federation of Library and Information Association (IFLA) World Congress in August 2015, Cape Town, South Africa)
- 21.** **Onifade, F. N**, Sowole, A O and Idowu, T A (2015) Assessment of Library Registration between Fresh and Returning Undergraduate Students’ of the Federal University of Agriculture, Abeokuta, Nigeria. *Library Philosophy and Practice* Paper 1337 (e-journal). Available online on <http://digitalcommons.unl.edu/libphilprac/>
- 22.** Onifade, G.O, Popoola, S.O and **Onifade, F.N** (2016) Teaching Effectiveness, Cognitive Styles and Utilisation of Library Information Resources among Academic Staff in Nigeria Library and Information Science Schools. *Current Studies in Librarianship* 32(2) 143-164
- 23.** **Onifade, F. N** and Bridges L (2016) Our Sister Library Cooperation: Inspiring Cross Cultural Capability for Librarians and Enhancing Universal Access to Information and Knowledge. Presented at the International Federation of Library and Information Association (IFLA) World Congress (African Section) on August, 12, 2016 in Athens, Ohio, United State of America)

## 2.2 COLLEGE OF ANIMAL SCIENCE AND LIVESTOCK PRODUCTION (COLANIM)

### 2.2.1 Overview of the College

The College of Animal Science and Livestock Production was created in 1988 out of the School of Technology of the old College of Science and Technology, Abeokuta and currently contributes to the B. Agric. programmes through its five Academic Departments listed in Table 1. To date, the College has the highest assemblage of Registered Animal Scientists in the Nigerian University System and is recognised by the Nigerian Institute of Animal Science as a Centre of Excellence in Animal Breeding and Genetics.



**Prof. O.O. Oluwatosin**  
**B. Sc. Agric. (Animal Science), M.Sc.,**  
**Ph.D. (Agric. Biochem.) (Ibadan), RAS**  
**Dean, COLANIM**

Activities of the Departments in the College include: teaching students at undergraduate (100-FNG) and postgraduate (PGD, M. Agric. and Ph.D.) levels, research (individual and joint with local and foreign researchers/collaborators) and extension services. Academic staff of the College includes 18 Professors, 14 Readers, 12 Senior Lecturers, 8 Lecturer I, 10 Lecturer II, 3 Assistant Lecturers and a Graduate Assistant.

**Table 2.2.2: Departments in the College of Animal Science and Livestock Production**

Name of Department	Acronym
Animal Breeding and Genetics	ABG
Animal Nutrition	ANN
Animal Physiology	ANP
Animal Production and Health	APH
Pasture and Range Management	PRM

### 2.2.3 Research Output (Staff Publications, Patents and Major research breakthroughs)

During the academic year under review, the research output of the academic staff of College of Animal Science and Livestock Production are presented in the table below.

**Table 2.2.3. Research Output of Academic Staff in 2015/2016 academic session**

College/Departments		Local		International	
		Journal	Conference	Journal	Conference
<b>COLANIM</b>	ABG ANN ANP APH PRM	52	44	115	20

### 2.2.4 Linkages and Partnerships (On-going Collaborations)

The College had partnership with the following Institutions/organizations:

- Bill and Melinda Gates Program for Emerging Agricultural Research Leaders (PEARL) awards for Evaluation, Characterization and Development of high-producing local chicken germplasm for growth and egg production under semi-scavenging rural production.
- FUNAAB/NAFDAC Partnership
- FUNAAB/Biochem incorporated, Germany
- FUNAAB/Livestock Feeds Limited Partnership
- FUNAAB/NOVUS International and Norgein Nigeria Limited.
- Collaborative research between staff of the College and Njala University, Sierra Leone on strengthening farmer-research linkage in evaluating integrated feeding systems involving protein banks and dual purpose goat development in Sierra Leone under the Developing Partnerships in Higher Education (DELPHE) project funded by British Council.

### 2.2.5 Teaching and Research Activities

In 2016, teaching and research activities in COLANIM were remarkable. Total of 2,532 undergraduates and 198 postgraduate students (with 67% of them pursuing Master's degree, 3% postgraduate Diploma and the rest pursuing doctoral degree programme respectively) from the five Departments in the College were attended to. Research output of the College was quite significant. Total of 231 articles were published by the academic staff of the College.

### **2.2.6 Grants and Awards (Research Grants, Fellowships, Scholarships/Promotions and Awards)**

Some grants, awards, promotions and appointments in the year include the following:

1. Prof. C. O. N. Ikeobi received the Fellowship of the Nigerian Society for Animal Production during the 41<sup>st</sup> NSAP 2016 conference held March 2016.
2. Dr. M. Wheto concluded 3 months (October 2015-January 2016) Visiting Scholar's training at the Cornell University, Ithaca, USA
3. Dr. A. O. Yusuf bagged PhD in Ruminant Production and proceeded on a postdoctoral research study at North West University, Mafikeng, South Africa.
4. Mr. O. J. Odutayo of the Department of Animal Production and Health was awarded best in Poultry Production in the Graduate Animal Scientist Examination and was consequently inducted a Graduate Animal Scientist. He also won the African Union (AU) award for his Ph.D. degree programme on November 1, 2016.
5. Dr. O. M. Sogunle of the Department of Animal Production and Health got a 6-month postdoctoral fellowship to India.
6. Dr. Aderinboye R.Y of the Department of Animal Nutrition won a 6-month Africa Biosciences Challenge (ABCF) Fellowship to Kenya.
7. Academic staff in the College attended the annual conferences of Nigerian Society of Animal Production, Animal Science Association of Nigeria and Mandatory Continuing Professional Education Training of NIAS.

### **2.2.7 Notable Events in COLANIM**

Notable events executed successfully by the college in 2016 include:

- COLANIM was runners' up on the medals table in the 2016 Inter-Collegiate Sports/Vice-Chancellor's Cup competition
- College hosted successfully the 41<sup>st</sup> Annual Conference of NSAP in March 2016 and
- Special College Board was organized to honour two retired professors in the college (Professors O. A. Osinowo and Daisy Eruvbetine).

**Table 2.2.8 Students' Statistics**

S/N	COLLEGE/DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL			
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
	COLANIM																						
1	ABG	56	25	81	42	46	88	52	45	97	62	42	104	73	32	105	0	0	0	285	190	475	
2	ANN	60	39	99	52	33	85	60	44	104	42	56	98	92	37	129	0	0	0	306	209	515	
3	ANP	32	37	69	45	38	83	43	43	86	52	43	95	65	63	128	0	0	0	237	224	461	
4	APH	75	18	93	72	30	102	66	26	92	77	34	111	99	54	153	0	0	0	389	162	551	
5	PRM	61	21	82	41	38	79	51	42	93	40	51	91	82	38	120	0	0	0	275	190	465	
	Sub-Total	284	140	424	252	185	437	272	200	472	273	226	499	411	224	635	0	0	0	1,492	975	2,467	

**Table 2.2.9 Statistics Of Promoted Staff In The College Of Animal Science and Livestock Production**

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	COLANIM							
1	ABG	0	1	0	1	0	0	0
2	ANN	0	0	0	1	0	0	0
3	ANP	0	0	3	1	0	0	0
4	APH	1	2	1	1	0	0	0
	SUB TOTAL	1	3	4	4	0	0	0

**Table 2.2.10 Staff Disposition**

S/N	COLLEGE/ DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
	COLANIM						
1	ABG	12	2	1	1	0	2
2	ANN	10	4	0	2	0	2
3	ANP	9	1	0	1	2	0
4	APH	14	3	0	2	0	2
5	PRM	4	4	1	0	0	3
	SUBTOTAL	49	14	2	4	2	9



### 2.2.11 Publications, Grants, Seminars and Conferences

S/N	COLLEGE/DEPT	SEMINAR/CONFERENCE	RESEARCH		
			NO OF PUB	GRANTS	HONOURS
1	ABG	2	57	0	0
2	ANN	0	32	0	0
3	APH	31	25	2	0
4	PRM	0	12	0	0

### 2.2.12 Linkages and Partnership

The Departments in the College had partnership with the following institutions

1. Collaborative research was carried out by academic staff (Drs. O. M. O. Idowu and O. A. Fasae) in the College and Njala University, Sierra Leone on strengthening farmer-research linkage in evaluating integrated feeding systems involving protein banks and dual purpose goat development in Sierra Leone under the Developing Partnerships in Higher Education (DELPHE) project funded by British Council.
2. A TETFUND sponsored collaborative study on the welfare and performance of four breeds of exotic pigs was also ongoing between our academic staff (Dr. O. O. Adeleye) and Institute of Agricultural Research and Training, Moor Plantation, Ibadan.

## 2.2.13 DEPARTMENT OF ANIMAL BREEDING AND GENETICS

### *List of Publications*

1. Adenaike, A. S., I. O. Akinlabi, A. O. Akinola, E. O. Ewaoluwagbemiga, A. E. Ogundero, A. G. Tijani and C. O. N. IKEOBI. 2016. Sex identification of Nigerian indigenous chicks using auto-sexing methods. *Nigerian Journal of Animal Production* 43 (1): 21 – 26. Published by the Nigerian Society for Animal Production, Nigeria.
2. Oni, O. A., O. Olowofeso, C. O. N. IKEOBI, O. M. Sogunle, S. O. Durosaro and A. J. Sanda. 2016. Comparison of the effectiveness of decamer and microsatellite markers with chicken populations in Ogun and Ondo States. *European International Journal of Science and Technology* 5: 1 - 12. (Published in the United Kingdom).
3. Adenaike, A. S., A. O. Mabunmi, M. I. Takeet, O. D. Adenaike and C. O. N. IKEOBI. 2016. Genetic differences in the body weight and haematological traits of Nigerian indigenous chickens infected with *Eimeria tenella*. *Tropical Animal Health and Production* 48: 1443 – 1447. Published by Springer, United Kingdom.
4. Adenaike, A. S., U. Akpan and C. O. N. IKEOBI. 2016. Principal component regression of body measurements in five strains of locally adapted chickens in Nigeria. *Bulletin of Animal Health and Production in Africa* 64 (1): 107 – 117. Published by the African Union – Inter-African Bureau for Animal Resources (AU-IBAR), Nairobi, Kenya.
5. Wheto, M., M. A. Adeleke, A. O. Adebambo, S. O. Durosaro, A. J. Sanda, A. S. Adenaike, C. O. N. IKEOBI and O. A. Adebambo. 2016. Growth hormone gene polymorphism and its effect on carcass characteristics in improved Nigerian indigenous chickens. *Nigeria Poultry Science Journal* 12: (accepted 25<sup>th</sup> January, 2017). Published by the World's Poultry Science Association – Nigeria Branch.
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9. Durosaro, S.O., Taiwo, O.T., Sanda, A.J., Wheto, M., Ilori, B.M., Adebambo, A.O. and Ozoje, M.O. 2016. Comparison of non-linear growth models in describing the growth curve of Nigerian indigenous turkeys. *Nigerian Journal of Genetics* 31: 102- 109.
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11. Okpeku, M., Peters, S.O., Imumorin, I.G., Caires, K.C., Sharma, V.K., Wheto, M., Tamang, R., Adenaike, A.S., Ozoje, M.O. and Thangaraj, K. 2016. Mitochondrial DNA hypervariable region 1 in Nigerian goats. *Animal Genetic Resources* 59: 47-54.
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13. Olowofeso, O., Wheto, M., Durosaro, S.O., Bankole, K.O., Adepoju, D.A., Folarin, O.V. 2016. Combined Exclusion Probabilities of Ten Microsatellite Markers used with Nigerian Chicken Populations. *European International Journal of Science and Technology* 5(4): 21-32. (Published by the Center for Enhancing Knowledge, United Kingdom). Available online at [www.eijst.org.uk/images/frontImages/gallery/Vol. 5 No. 4/3. 21-32.pdf](http://www.eijst.org.uk/images/frontImages/gallery/Vol. 5 No. 4/3. 21-32.pdf)
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18. Olowofeso, O., Wheto, M., Durosaro, S. O., Bankole, K. O., Adepoju, D. A. and Folarin O. V. (2016): Combined exclusion probabilities of ten microsatellite markers used with Nigerian

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## 2.2.14 DEPARTMENT OF ANIMAL NUTRITION

### *List of Publications*

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8. Jegede, A.V, Oduguwa, O.O., Fafiolu, A.O, Olorunsola, R.A., Ibitoye, O.O., Ogunsola, I.A., Obadire, F.O and Awesu, J.A. 2015. Performance characteristics, plasma lipids and copper residue in organs and tissues of cockerel chickens fed dietary organic and inorganic copper. *Nigerian Journal of Animal Production*, 42 (1): 85 - 92. Published by the Nigerian Society for Animal Production (NSAP) <http://www.ajol.info/index.php/njap>
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10. Salami, S. A. O. O. Oduguwa, A. O. Oso, O. M. Sogunle, A. O. Fafiolu, O. O. Adeleye and F. A. Bello. 2015. Utilisation of commercial chelated trace mineral blend (Poultry TMO) as replacement for inorganic salts in diets of meat-type turkeys. *Nigeria Poultry Science Journal* 10(2): 188-194.
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36. Salami, S.A., O.O. Oluwatosin, A. O. Oso, A.O. Fafiolu, A. V. Jegede, O.O. Adeleye, Sogunle, O.M. 2016. Growth, mineral bioavailability and bone quality of turkeys fed inorganic blends or mineral chelates of Cu, Zn and Mn. *Tropical Agriculture, (Trinidad)* 93: (4) 258-270.
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41. S.A. Salami, O.O. Oluwatosin, Oso. A. O, A.O. Fafiolu, A.V. Jegede, O.O. Adeleye, Sogunle, O.M. 2016. Growth, mineral bioavailability and bone quality of turkeys fed inorganic blends or mineral chelates of Cu, Zn and Mn. *Tropical Agriculture (Trinidad)* (Accepted).
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44. Salami , S. A. , O O. Oluwatosin,, A. O. Oso, , A. O. Fafiolu, , O. M. Sogunle, , A. V. Jegede, ,F. A. Bello and V. Pirgozliev. 2016. Bioavailability of Cu, Zn and Mn from Mineral Chelates or Blends of Inorganic Salts in Growing Turkeys Fed with Supplemental Riboflavin and/or Pyridoxine. *Biological Trace Element Research* published online January 19, 2016 with DOI 10:1007/s 2011-016-0618-2
45. Adejola Y. A., Sobayo R. A., Muhammed S. B., Akinbola D. D. and Olanrewaju A. 2016. Effects of Two Herbal Feed Additives with or without Grits on Growth Performance and Nutrient Digestibility of Broiler Chickens *Journal of Animal Science Advances*. 6(2): 1548-1554.
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## 2.2.15 DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH

### *List of Publications*

1. Yusuf, A. O., Sonibare, O. A., Sodipe, O. G. and Sowande, O. S. 2016. *Newbouldia laevis* leave extract: Nutritive value, phytochemical constituents and effect on growth performance and faecal egg count reduction in West African dwarf rams raised semi intensively. *Nigerian Journal of Animal Production*. 43(1): 239 - 246. Published by Nigerian Society for Animal Production. Nigeria.
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17. Ayo-Ajasa, O. Y., Abiona, J. A., Fafiolu, A. O., Egbeyale, L. T., Njoku, C. P., Omotayo, I. G., Odeyemi, A. Y. and Abel, F. A. S. 2016. Performance characteristics of broilers fed graded levels of *Moringa oleifera* leaf meal. *Malaysian Journal of Animal Science* Vol. 19(1): 23-31. Published by Malaysian Society of Animal Production. MALAYSIA. Available online at <http://www.mjas.my>.
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24. Okanlawon, E. O., Bello, K. O.; Akinola, O. S. and Oluwatosin, O. O. (2016). Growth Performance and Economic Benefits of Male and Female Rabbits Fed Diets Supplemented with Turmeric (*Curcuma Longa*) Powder. *New Technologies for Enhanced Animal Production in Nigeria*. O. O. Oluwatosin, O. S. Sowande, O. Olowofeso, L. T. Egbeyale, O. O. Adeleye, C. P. Njoku, A. O. Osofowora, and A. J. Sanda (Eds). *Proceedings of the 41<sup>st</sup> Annual*

Conference of the Nigeria Society for Animal Production, Abeokuta, March 20 – 24, 2016. Pp 452 – 455

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## **2.2.16 DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH**

### **2.2.16.1 Introduction**

The Department of Animal Production and Health (APH), was established in 1989. The Department emphasises modern way of teaching and research in Animal Production. The Department has three (3) Laboratories for feed stuff analysis, meat processing and postgraduate research respectively. Livestock processing has been gradually introduced into the programme to enable students acquired sufficient skills for self employment after graduation. The Department also introduced hatchery operations from inception. The hatchery Unit in the Department is equipped with both electric and fabricated kerosene incubators for small scale hatchery operations.

### **2.2.16.2 PUBLICATIONS**

	<b>JOURNALS</b>		<b>CONFERENCE PROCEEDINGS</b>	
	<b>LOCAL</b>	<b>INTERNATIONAL</b>	<b>LOCAL</b>	<b>INTERNATIONAL</b>
<b>2015/2016</b>	33	19	27	4

### **2.2.16.3 Grants and Awards**

1. Dr. A. O. Yusuf won a North West University Postdoctoral Fellowship in South Africa from February 1, 2016 to February 28, 2018
2. Dr. O. M. Sogunle won a C V Raman Postdoctoral Fellowship in India from November 1, 2016 to April 30, 2017

## 2.2.17 DEPARTMENT OF ANIMAL PHYSIOLOGY

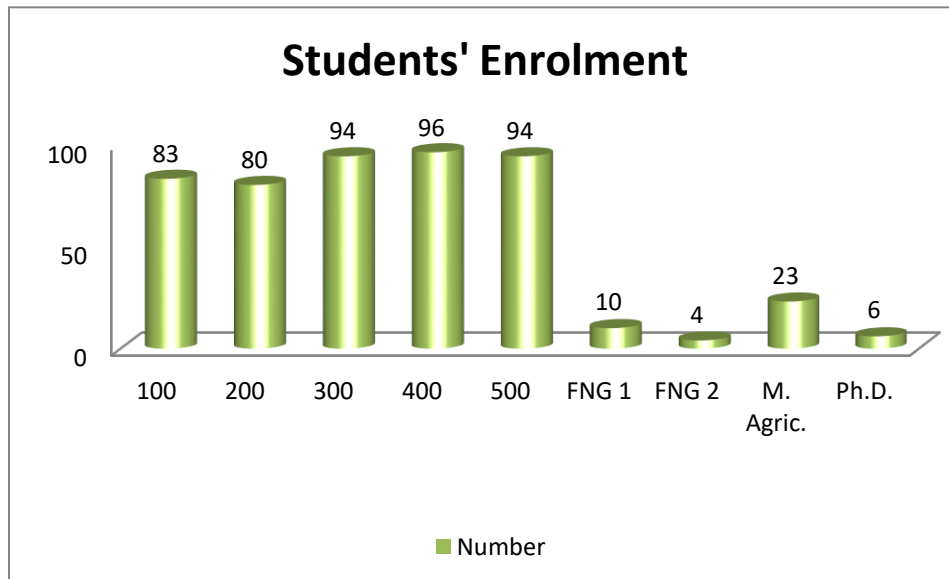
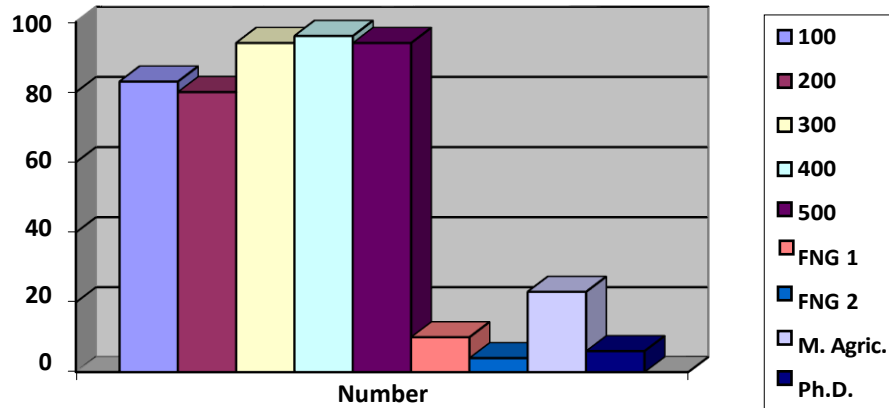
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5. Ayo-Ajasa, O. Y., Abiona, J. A., Fafiolu, A. O., Egbeyale, L. T., Omotayo, I. G., Odeyemi, A. Y. and Abel, F. A. S. 2016. Performance characteristics of broilers fed graded levels of *Moringa oleifera* leaf meal. *Malaysian Journal of Animal Science* 19(1): 23-31.
6. Abioja, M. O., Adekunle, M. O., Abiona, J. A., Sodipe, O. G. and Jegede, A. V. 2016. Laying performance, survival rate, egg quality and shell characteristics in laying chickens offered honey in drinking water during hot season. *Agricultura Tropica et Subtropica* 49(1&2):12-19.
7. Ladokun, A. O., Obe, A. A., Oso, A. O., Oke, O. E. and Abiona, J. A. Performance and egg quality characteristics of egg type Chickens as influenced by Fluted pumpkin (*Telfaria occidentalis*) heat extract. *Nigerian Journal of Animal Science* 18(1): 42-48.
8. Abioja, M. O., Adekunle, M. O., Abiona, J. A., Sodipe, O. G. and Jegede, A. V. 2016. Laying Performance, Survival rate, Egg Quality and Shell characteristics in Laying Pullets Offered Honey in Drinking Water during Hot Season. *AGRICULTURA TROPICA ET SUBTROPICA*, 49(1-4): 12-19.
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16. Williams, T.J., Ohayi, M.O., Akinrele, L.N., Daramola, J.O., Oke, O.E. and Iyasere, O.S. (2016).

Influence of udder stimulation, stage of lactation and parity on milk yield in West African Dwarf goats. *Nigerian Journal of Animal Production*, 43 (1):61-69.

17. Iyasere, O.S., Sodipo, T.O., Subulokun, A.V. (2016). Effect of the nutritional enrichment with forage (*Tridax procumbens*) on the behavior and growth performance of conventionally reared broiler chickens. *Nigerian Journal of Animal Production*, 43 (1):129-135.

## 2.2.18 DEPARTMENT OF PASTURE AND RANGE MANAGEMENT

Chart 2.2.18.1 Students' Enrolment



### 2.2.18.2 Innovations/Breakthroughs

1. Development of Total Mixed Ration (TMR) and Forage Based Feed Blocks (FBFB) for feeding of ruminant animals.
2. Development of Stylosanthes-based fodder bank and low cost natural pasture improvement systems for traditional cattle production.
3. Development of pelletized herbaceous leguminous feed resource for small ruminants
4. Development of functional hay curing methods for the wet season

### 2.2.18.3 Publications

1. Ojo, V.O.A., Jolaosho, A.O., Onifade, O.S., Amodu, J.T., Olanite, J.A. Arigbede, O.M., Anele, U.Y., Adeoye, S.A., Dele, P.A. and Amole, T.A. 2016. Dry matter yield, botanical and chemical composition of natural forages of the south western Nigeria as influenced by topography, land use and season. *Journal of Animal Production Research* 28(1):138-150. Published by National Animal Production Research, Institute, Nigeria.
2. Ojo, V.O.A., E. D. Oyebanjo, O. T. Opayemi, S. O. Mustapha, O. O. Adelusi, S. A. Adeoye, U. Y. Anele, A. O. Ogunsakin, A. O. Jolaosho and O. S. Onifade. 2016. Effects of seasonal changes on the nutritive quality of *Moringa oleifera* and *Panicum maximum* silage'. *Slovak Journal of Animal Science* 49, (2): 7684. Published by Slovak Republic Association of Animal Science. [www.cvzv.sk/index.php/en/slovak-journal-of-animal-science](http://www.cvzv.sk/index.php/en/slovak-journal-of-animal-science)
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5. Adelusi O. O., O. A. Isah, C. F. I. Onwuka, A. O. Yusuf, V. O. A. Ojo and R. Y. Aderinboye. 2016. Performance, digestibility and nitrogen balance of West African dwarf goats fed *Azadirachta indica*, *Newbouldia laevis* and *Spondias mombin* leaves. *Nigerian Journal of Animal Science* 18 (2):507-517. Published by the Animal Science Association of Nigeria. <http://www.ajol.info/index.php/tjas>
6. Ojo, V. O. A., Ogunbote, O. B., Ogunsakin, A. O., Adelusi, O. O. and Olanite, J. A. 2016. Influence of sole grasses and grass-legume mixtures on quality estimation using *in vitro* gas production technique. *Journal of Animal Production Research* 28(2):28-36. Published by National Animal Production Research Institute, Ahmadu Bello University, Zaria.
7. Dele P. A., Amole T. A., Akinyemi B. T., Sangodele O.T., Okukenu O.A., Oyebanjo E. D., Adepoju R. O., Ewetola I. A., Ojo V.O.A. and Olanite J. A. 2016. Physical and chemical characteristics of *Pennisetum purpureum* grass silage as affected by manure type and ensiling duration. *Journal of Animal Production Research* 28(2):37-49. Published by National Animal Production Research Institute, Ahmadu Bello University, Zaria.
8. Ewetola I. A., Olanite J. A., Oni O. A., Dele P. A., Ojo V.O.A., Olasupo, I. O., Idowu, J. O., Jimoh, S. O. and Adekeye, A. B. 2016. Effect of organic manures sourced from different animal wastes on re-growth potential of *Panicum maximum* and *Brachiaria decumbens* in South Western Nigeria. *International Journal of Organic Agriculture Research and Development* 12: 47-63. Published by Organic Agriculture Practitioners in Nigeria (OAPTIN). <http://www.ijoardjournal.org/publications/ijoard>

9. Ewetola, I. A., Olanite, J. A., Adepoju, R. O., Dele, P.A., Muriana, T. O., Sangodele1, O. T., Mustapha, S. O and Adesetan, Y. T. (2016): Residual effects of four animal manures on the physical and chemical characteristics of silage produced from *Panicum maximum* (Ntchisi) in Abeokuta south-west, Nigeria. *Nigerian Journal of Animal Science* 18 (2): 542-550. Published by Animal Science Association of Nigeria <http://www.ajol.info/index.php/tjas>
10. Muraina, T.O., Olanite, J. A., Ewetola, I. A., Alalade, J. A., Emiola, C. B., Adebisi, I. A., Akanbi, K. O., Ojetunde, F. A., Olalekan, R. A. and Mustapha, S. O. 2014. Evaluation of growth and nutritive value of *Panicum maximum* intercropped with *Centrosema pascuorum* and *Clitoria ternatea*. *International Journal of Organic Agriculture Research and Development* 10:1-16. Published by Organic Agriculture Practitioners in Nigeria (OAPTIN). <http://www.ijoardjournal.org/publications/ijoard>
11. Muraina, T.O., Onifade, O.S., Olanite, J.A. Dele, P.A., Okpiaifoh, C.I., Ewetola, I.A., Amahwe, O.J. and Kadiri, S.I. (2016). Effect of storage place and storage period on nutritive quality of hay produced from three grasses. *Nigerian Journal of Animal Science* 18(1): 207-214. Published by the Animal Science Association of Nigeria. <http://www.ajol.info/index.php/tjas>
12. Muraina, T.O., Olanite, J.A., Ojo, V.O.A., Fasae, O.A., Ewetola, I.A., Okukenu O.A. and Adebisi, I.A. (2016). Assessment of chemical composition of natural pasture oversown with two *Stylosanthes* species for ruminant feeding. *Nigerian Journal of Animal Science* 18(1): 207-214. Published by the Animal Science Association of Nigeria. <http://www.ajol.info/index.php/tjas>

## 2.3 COLLEGE OF ENGINEERING (COLENG)

### 2.3.1 Overview of the college

Presently, the College is running operational programme at both undergraduate and postgraduate levels under the following Departments; Agricultural & Bio-Resources Engineering, Civil Engineering, Electrical/Electronics Engineering, Mechanical Engineering and Mechatronics Engineering. The College activities had been geared towards achieving the mandates of the College and that of the University which are training engineers to solve agricultural problems in the area of technology, self-sufficiency in food production, skills development, design of simple and complex structures, artificial intelligence and inculcation of entrepreneurial culture into our engineering graduates.



**Engr. Prof. J.K Adewumi**  
B.Eng., M.Sc. & Ph.D (Zaria) NSE,  
R. COREN. C. ENG. (UK)  
*Dean, COLENG*

Recently, under the leadership of the Dean and the Civil Engineering Department in collaboration with other technical staffs in the College has repaired the ceremonial road and are still being challenged to rehabilitate FUNAAB gate to Camp road junction.

### 2.3.2 Students' Statistics

S/ N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL			
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
	<b>COLENG</b>																						
1	<b>AGE</b>	30	0	<b>30</b>	33	8	<b>41</b>	38	8	<b>46</b>	35	5	<b>40</b>	43	3	<b>46</b>	0	0	<b>0</b>	179	24	<b>203</b>	
2	<b>CVE</b>	34	1	<b>35</b>	32	5	<b>37</b>	38	3	<b>41</b>	39	0	<b>39</b>	39	5	<b>44</b>	0	0	<b>0</b>	182	14	<b>196</b>	
3	<b>ELE</b>	35	2	<b>37</b>	34	7	<b>41</b>	36	4	<b>40</b>	37	3	<b>40</b>	55	4	<b>59</b>	0	0	<b>0</b>	197	20	<b>217</b>	
4	<b>MCE</b>	36	3	<b>39</b>	35	3	<b>38</b>	38	3	<b>41</b>	45	0	<b>45</b>	46	1	<b>47</b>	0	0	<b>0</b>	200	10	<b>210</b>	
5	<b>MTE</b>	31	3	<b>34</b>	33	1	<b>34</b>			<b>0</b>			<b>0</b>			<b>0</b>	0	0	<b>0</b>	64	4	<b>68</b>	
	<b>Sub-Total</b>	<b>166</b>	<b>9</b>	<b>175</b>	<b>167</b>	<b>24</b>	<b>157</b>	<b>150</b>	<b>18</b>	<b>168</b>	<b>156</b>	<b>8</b>	<b>164</b>	<b>183</b>	<b>13</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>822</b>	<b>72</b>	<b>894</b>	



### 2.3.3 Staff Disposition

S/N	COLLEGE/ DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
III	COLENG						
1	AGE	11	0	5	0	0	2
2	CVE	6	1	6	0	0	1
3	ELE	7	2	4	1	1	1
4	MCE	7	2	6	0	1	3
5	MTE	1	0	0	0	0	0
	SUBTOTAL	32	5	21	1	2	7

### 2.3.4 Statistics of Promoted Staff in the College Of Engineering

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	COLENG							
1	AGE	0	0	0	0	0	0	0
2	ELE	0	0	0	1	1	0	0
3	CVE	0	0	1	0	0	0	0
4	MCE	0	0	0	0	0	0	0
5	MTE	0	0	0	0	0	0	0
	SUB TOTAL	0	0	1	1	1	0	0

### 2.3.5 Publications, Grants, Seminars and Conferences

S/N	COLLEGE/DEPT	SEMINAR/CONFERENCE	RESEARCH		
			NO OF PUB.	GRANTS	HONOURS
	COLENG				
1	AGE	3	12	0	0
2	CVE	0	15	0	0
3	MCE	0	30	0	0
4	MTE	1	1	1	0

## 2.3.6 Grants and Awards

### (Research Grants, Fellowships, Scholarships, and Awards)

#### 2.3.6.1 GRANTS

##### Civil Engineering Department

1. Dr. Akinyele J.O, Postdoctoral Fellowship of the Tshwane University of Technology, Pretoria, South Africa, 2015-2016

##### Mechanical Engineering Department

2.	All Academic Staff in Mechanical Department	College of Engineering International Conference, Federal University of Agriculture, Abeokuta	7 <sup>th</sup> – 11 <sup>th</sup> March, 2016.
3.	Dr. O.R. Adetunji	Nigerian Metallurgical Society Annual Conference, Nigeria Army Guest House, Kaduna.	26 <sup>th</sup> – 29 <sup>th</sup> October, 2016

#### 2.3.6.2 AWARD

##### Agricultural & Bio-Resources Engineering Department

S/N	Staff Name	Award(s)	Year
1	Prof. B. A. Adewumi	Professional Development Award – Presented by the Nigerian Corrosion Association, Western Chapter for the presentation of Keynote Address at the 2016 Annual Conference the Association	2016.

#### 2.3.7 Linkages and Partnerships (On-Going Collaboration)

In order to promote educational excellence, academic ties and international cooperation, during the period under review, the College opened up possibilities of collaboration programme with National Agency for Science and Engineering Infrastructure (NASeni) (final stage) in the area of equipment and software that can help to further develop the University to the category of world class status. Collaboration with St. Clouds State University Minnesota, United State is still on going. This is to explore the feasibility of establishing an educational and scientific exchange agreement.

## 2.3.8 DEPARTMENT OF AGRICULTURAL & BIO-RESOURCES ENGINEERING

### 2.3.8.1 Publications

1. Adewumi B. A. 2016. Agricultural & bio-resources/ environmental engineering in Nigeria. An invited paper country presentation at the Food Security Conference held at Stellenbosch, Cape Town, South Africa organized by the American Society of Agricultural and Biological Engineer between Oct. 24 and 27, 2016.
2. Adewumi B. A. 2016. Agricultural & bio-resources/ environmental engineering in Nigeria. An invited paper country presentation at the Food Security Conference held at Stellenbosch, Cape Town, South Africa organized by the American Society of Agricultural and Biological Engineer between Oct. 24 and 27, 2016.
3. Adewumi B. A. Adeyemi, M. A and Ogunsina, B S. 2016. Assessment of silo materials handling equipment: A case study of some establishments in oyo and ogun states, Nigeria. Paper presentation at the Food Security Conference held at Stellenbosch, Cape Town, South Africa organized by the American Society of Agricultural and Biological Engineer, between Oct. 24 and 27, 2016.
4. Dairo O.U., Aderinlewo A.A. Adeosun O. J., Ola O. A. and Saludeen O.(2015). Solar Drying Kinetics of Cassava Slices in a Mixed Flow Dryer. *Acta Technologica Agriculturae*. The Scientific journal of Agricultural Engineering, 4: 102 – 107. Published by Slovaca University of Agriculture in Nitra. DOI: 10.1515/ata-2015-0020
5. Dairo, O. U., Iyerimah, R.B., Sobayo, A.O., Aderinlewo, A.A., Adeosun, O.J. & Adeleke, E.A. (2014). Optimization of inclusion level of castor oil bean cake in broiler feed using response surface methodology. *British Journal of Poultry Sciences*. Vol. 3:(2):42 - 48 pp. Published by IDOSI Publications, UAE. Available at [dio:10.5829/idosi.bjps.2014.3.2.84249](https://doi.org/10.5829/idosi.bjps.2014.3.2.84249).
6. Dairo O. U., Olukayode, A. I., Adeosun O. J., Adeleke, E A and Iyerimah, R. B. (2016). Low Cost Biogas Purification System For Rural/Domestic Use. In *SET: A driving force for sustainable development*. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. 355 – 359
7. Dairo O. U., Olayanju, T.M.A., Amusan, O., Adeosun, O. J. and Adeleke, E. A. (2016). Production Of Bio-Diesel From *Jatropha Curcas* Seed Using In-Situ Technique: Effect Of Catalyst Amount And Alcohol-Seed Ratio. In *SET: A driving force for sustainable development*. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. 134 – 140
8. Ola I. A., Oladepo G. A., Wahab A. A., Awotedu O. D., Adisa A. F., Aremu O. O., Dairo O. U., Ismaila S. O., Oluwalana E. O. A., Oluwalana S. A., Aderinlewo A. A. And Ajisegiri E. S. A. (2016). Design and Fabrication of a Low Cost Centrifugal Honey Extractor. In *SET: A driving force for sustainable development*. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. \*\*\* – \*\*\*.

9. Aderinlewo A. A., Olaoluwa A. L. and Dairo O. U. (2016) Performance Evaluation Of A Two-Row Cowpea Planter. In SET: A driving force for sustainable development. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. \*\*\* - \*\*\*
10. Babalola A. A., Adisa A. F., Kuye S. I., Dairo O.U. and Ajisegiri E. S. A. (2016). Development of a Trailed Pto Driven Drilling Rig For Rural Water Supply. In SET: A driving force for sustainable development. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. \*\*\* - \*\*\*
11. Oladele J. O., Dairo O. U., Aderinlewo A. A. And Sobukola O. P. (2016).Determination of Suitable Thin Layer Drying Curve Model For Sponge Gourd Seed (*Luffa cylindrica*). In SET: A driving force for sustainable development. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. \*\*\* - \*\*\*
12. Adeosun O. J., Adewumi J. K., Dairo O. U., Dada P. O. O. And Ajibade S. A. (2016). Effect of Flow Rate On The Water Treatment Potential of Moringa Oleifera Seeds. In SET: A driving force for sustainable development. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. 391 – 395
13. Akangbe O. E., Akinyemi J. O., Adeosun O. J., Badejo A. A. and Dairo O. U. (2016). Modelling the Climate Variability Impacts on Maize Yield in Rain Forest Ecological Zone of Nigeria. In SET: A driving force for sustainable development. Olayanju, T. M. A., Adekunle, A. A, Ismaila, I.O. and Dairo, O. U (Eds.). Proceedings of the 1st International Conference COLENG 2016, Federal University of Agriculture, Abeokuta, March 7 - 11, 2016. Pp. 383 – 390

## **2.3.9 DEPARTMENT OF CIVIL ENGINEERING**

### **2.3.9.1 Research Work**

1. Determination of Thermal Properties of Rock Samples Using Modified Thermal Block Method
2. Determination of Groundwater Physico-chemical Parameters of Shallow Aquifers in Agbowo and Ajibode Communities in Oyo State.
3. An Assessment of the small hydro potential of Opeki River, southwestern Nigeria.
4. Engineering Properties of Sawdust Modified Clay Soil.
5. Suitability of Selected Nigeria Clay Deposit for Production of Clay.

#### **Based Ceramic Water Filters**

6. Remediation of soils polluted with petroleum products by thermal treatment.
7. Sediment characteristics on highways
8. Characteristic of Termite hill
9. Hydro-chemical study of Ogun-Osun River basin

10. Application of Yield line and Rankine Greshoff Theories to Waffle Slabs.
11. Use of Rice Husk Ash as a filler and pozzolan in burnt bricks.
12. Deterioration effect of sea water on concrete structures.
13. Use of Corncob ash as partial replacement of cement in concrete
14. The use of rubber and plastic wastes as alternative materials in reinforced concrete structures.
15. Modification of Asphalts concrete properties with polymers
16. Use of waste materials as mineral fillers in production of Asphalt concrete Quality assessment of sand-crete blocks production in Abeokuta.
17. Modeling of traffic accidents in Ogun State
18. Traffic flow models within Abeokuta
19. Municipal Wastewater treatment using sequential sludge reactor and vegetated submerged bed constructed wetland planted with *Vetiveria Zizanioides*.
20. Municipal Wastewater treatment using constructed wetlands planted with locally available macrophytes (*Phragmites australis* and *Vetiveria Zizanioides*.)
21. Auto-purification response of Ogunpa River, Ibadan to waste discharge.
22. Wastewater removal efficiency of various locally available macrophytes using vegetated submerged constructed wet land 2016.
23. Assessments of Geological, geophysical and geotechnical parameters as factors affecting pavement failure on a typical section along Lagos- Ibadan Expressway.
24. Characteristics and Binder Stabilization of Problematic Niger Delta Soils and Field Performance Evaluation in Nigeria.

### **2.3.9.2 Publications**

1. Akinyele, J.O, Salim, R.W & Kupolati, W.K (2016) Effect of rubber crumb on the microstructural properties of concrete, *African Journal of Science, Technology, Innovation and Development*. Vol. 8, pp 1-8. (Routledge) Taylor and Francis Group, London.
2. Akinyele, J.O, Salim, R.W & Kupolati, W.K (2016) Production of lightweight concrete from waste tire rubber crumb, *Engineering Structures and Technologies*, Vol. 8(3), pp108-116. Taylor and Francis Group, London.
3. Akinyele, J.O., Salim R.W and Kupolati W.K. (2015). “The impact of rubber crumb on the mechanical and chemical properties of rubberized concrete.” *Engineering Structures and Technologies*, Vol. 7 (4), pp 196-203. Taylor and Francis Group, London.
4. Olaleye, O.T., Akinyele, J.O, and Olateju O.T. (2015). “Characterization of Corncob Ash Pozzolan and its Performance in Concrete”. *Journal of Science, Technology, Mathematics and Education (JOSTMED)*, 11 (1). Pp 119- 131. Federal University of Technology, Minna. Nigeria.
5. Akinyele, J.O., Olateju O.T and Oikelome O.K. (2015). “Rice Husk as Filler in the Production of Bricks Using Gboko Clay.” *Nigerian Journal of Technology (NIJOTECH)*. Vol. 34. No. 4, pp 672 -678. University of Nigeria, Nssuka, Nigeria.
6. Akinyele, J.O and Hassan, R.O. (2015). “Partial Replacement of Fine Aggregate with Polypropylene fibres in Concrete Slab”. *ACTA TEHNICA CORVINIENSIS- Bulletin of Engineering*, Vol. 8, No. 2, pp. 119 – 124. Faculty of Engineering-Hunedoara, University Politehnicah Timisoara, Romania.

7. David O. Omole, Adekunle A. Badejo, Julius M. Ndambuki, Adebola G. Musa and K. Kupolati (2016) Analysis of Auto-Purification Response of River Apies to Treated Wastewater Effluent. *Water SA*, 42 (2), 225-231, Water Research Commission, Williams (South Africa).
8. Omole D.O, Ndambuki J.M, Badejo A.A, Oyewo D.O and Soyemi T.O. (2016) Public feedback on state of domestic water supply in Lagos: Implication for public health. *Indian Journal of Traditional Knowledge*. 15(2), 245-253. NISCAIR-CSIR. (India).
9. Adedayo A. Badejo, Julius M. Ndambuki, Williams K. Kupolati, Adebola A Adekunle, Solomon A. Taiwo and David O. Omole (2015) Appraisal of Access to Safe Drinking Water in Southwest Nigeria. *African Journal of Science, Technology, Innovation and Development*, 7 (6), 441-445. Routledge, Taylor and Francis, (United Kingdom).
10. Adedayo A. Badejo, Mynepalli K. Sridhar, Adewale O. Coker, Julius M. Ndambuki and Williams K. Kupolati (2015) Phytoremediation of water using *Phragmites karka* and *Vetiveria nigriflora* in Constructed wetland. *International Journal of Phytoremediation*, 17, 847-852. Routledge, Taylor and Francis, (United Kingdom).
11. M.B. Mndawe, J.M Ndambuki, W.K. Kupolati, A.A Badejo and R. Dunbar (2015) Assessment of the effects of Climate Change on the Performance of Pavement Subgrade. *African Journal of Science, Technology, Innovation and Development*, 7(2), 111–115. Routledge, Taylor and Francis, (United Kingdom).
12. David O. Omole, Julius M. Ndambuki, Adebola G. Musa, Ezechiel O. Longe, Adekunle A. Badejo and Williams K. Kupolati (2015) A Model Selection Procedure for Stream Re-Aeration Coefficient Modeling. *Modern Applied Science*. 9(9) 138-160. Canadian Center of Science and Education, (Canada).
13. Omole, D.O, Emenike, C.P, Tenebe, I.T, Adeboye, A.O, Badejo, A.A (2015) An assessment of water related diseases in a Nigerian community. *Research Journal of Applied Sciences, Engineering and Technology* 10(7): 776-781. Maxwell Science Publication. (U.S.A).
14. Omole, D.O, Tenebe, I.T, Emenike, C.P, Umoh, A.S, Badejo, A.A (2015) Causes, impact and management of electronic wastes: case study of some Nigerian communities. *Journal of Engineering and Applied Sciences*. 10 (18) 7876-7884. Asian Research Publishing Network. (Pakistan)
15. S. O.Odunfa and S.O.Ajayi Impact of overloading on Pavement life design Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development tagged COLENG 2016, Federal University of Agriculture, Abeokuta, March 2016.

## 2.3.10 DEPARTMENT OF MECHANICAL ENGINEERING

### 2.3.10.1 Publications

1. Alayande S. O, Dare E. O, Msagati T.A. Akinlabi A. K and Aiyedun P. O. (2016). "Electrospun Expanded Polysterene and Expanded Polysytrene-Zeolite fiber with Superhydrophobic and Superoleophilic Surface Properties for Crude Oil-Water Separation". *Journal of Physics and Chemistry of the Earth*, 92, 7-13. (DOI 10.1016/j.pce. 201510.002). Published by Elsevier Journal homepage: [www.elsevier.com/locate/pce](http://www.elsevier.com/locate/pce).
2. Sadiq .T.O, Fadara .T.G, Aiyedun P.O and Idris. J. (2016). "Numerical Estimation of Rolling Load and Torgue for Hot Flat Rolling of HCSS316 at Low Strain Rates Based on Mean Temperature. "International Journal of Engineering Research in Africa, ISSN: 1663-4144, Vol. 26, pp 11-29
3. S. Oluwagbemiga Alayande, NyoniHlengilizwe E, Olugbenga Dare, Titus A. M. Msagati, A. Kehinde Akinlabi, P.O. Aiyedun. (2016). "Novel nanoporous sorbent for solid-phase extraction in petroleum fingerprinting". *Applied Physics A Material Science & Processing*. 122:392. DOI 10.1007/s00339-016-9931-z.
4. Anyanwu B.U., Fadare D.A., Adeleke O.A., Olarinre B and Aiyedun P.O. (2016) "Formulation of Selected Animal Fats and Vegetable Oils as Potential Metal Cutting Fluids in Turning Operation- Part 2: Performance Evaluation". *Proceeding of the International Conference of Mechanical Engineering, Energy Technology and Management (IMEETMCon 2016)*, University of Ibadan. 7th–9th September, 2016. Pp. 54 – 69.
5. Ismaila, S. O., Odedoyin, O. P. & Ajisegiri, G. O. (2016): Models to estimate the palm surface area of students in a tertiary institution in Abeokuta, Nigeria. *Cogent Engineering* 3 (1173777); 1-7, Published by Taylor and Francis, United Kingdom.
6. Yusuf, T. A., Bolaji, B. O., Ismaila, S.O. & Adewumi, J. K. (2016): Determination of Thermo Physical Properties of Water-Extract From Fermented Ground Maize 9WEFGM) as Possible Alternative to Water Use as cutting Fluid. *Silpakorn University of Science and Technology Journal* 10(2); 51-60, Published by Research and Development Institute, Silpakorn University, Thailand.
7. Adetunji, O.R, Ude, O.O, Kuye, S.I, Dare, E.O, Alamu, K.O and Afolalu, S.A. (2016) Potentiodynamic Polarization of Brass, Stainless and Coated Mild Steels in 1M Sodium Chloride Solution, *International Journal of Engineering Research in Africa*, 23(1): 1-6, doi:10.4028/www.scientific.net/JERA.23.1.
8. Adetunji, O.R., Akinyemi, O.J, Kuye, S.I and Dare, E.O. (2016) Corrosion Performance of Aluminium Zinc Coated Steel in Tomato, Orange and Pineapple Juices. *Corrosion and Protection*, 59(3); 66-69, [www.ochronaprzedkoroza.pl](http://www.ochronaprzedkoroza.pl), doi:10.15199/40.2016.3.2.
9. Adetunji, O.R., Akinyemi, O.J, Kuye, S.I and Dare, E.O. (2016) Corrosion Performance of Aluminium Zinc Coated Steel in Tomato, Orange and Pineapple Juices. *Corrosion and Protection*, 59(3); 66-69, [www.ochronaprzedkoroza.pl](http://www.ochronaprzedkoroza.pl), oi:10.15199/40.2016.3.2.
10. Ude O.O., Adetunji, O.R., Kuye, S.I., Dare, E.O.and Alamu,, K.O..(2016) Corrosion Behaviour Of Brass, Coated Mild And Stainless Steels in 1m Sodium Hydroxide Solution Using Polarization Method 159-164, COLENG Proceedings, March 7-11, 2016.

11. Akinyemi, O.J., Adetunji, O.R. Kuye, S.I. and Dare, E.O. (2016) Corrosion Performance of Electroplated Steel in Tomato, Orange and Pineapple Juices. 171-176, Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development.
12. Kuye, S.I. Adetunji, O.R., Adekunle, N.O. Abudu, A. (2016) Investigation Of Corrosion Inhibition Of Mild Steel In 0.5 M Sulphuric Acid In The Presence Of SpondiaMonbin Extract 165-170, COLENG Proceedings, March 7-11, 2016.
13. Olaniyan, O.J., Enock O. Dare, E.O., Adetunji, O.R. Adedeji' O.O. and Ogungbesan, S.O. (2016) Synthesis and Characterization of Chitosan-Silver Nanocomposite Film, *Journal of Nano Hybrids and Composite*, Vol. 11(1): 22-29, doi:10.4028/www.scientific.net/NHC .11.
14. Adeyemi, H.O.,Jagun, Z.O.O, Giwa, S.O., Adetunji, O.R. and Owamoyo, R. (2016) Modelling Room Cooling Capacity with Fuzzy Logic Procedure,*Nigerian Journal of Technology*, Vol. 35(3); pp 519-526 <http://dx.doi.org/10.4314/njt.v35i>.
15. Adetunji, O.R, Ude, O.O, Kuye, S.I, Dare, E.O, Alamu, K.O and Afolalu, S.A. (2016) Potentiodynamic Polarization of Brass, Stainless and Coated Mild Steels in 1M Sodium Chloride Solution, *International Journal of Engineering Research in Africa*, 23(1): 1-6, doi:10.4028/www.scientific.net/JERA.23.1.
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17. Adetunji, O.R., Ayobami A. Afolayan, A.A., Adekunle, N.O, Adeosun, O.J. and Okediran, K.I.(2016) Effect of Tomato Juice on Electrochemical Properties of Brass, Galvanized and Stainless Steel, *African Engineering Forum; Advanced Engineering Forum*. 15(1):85-91 *Trans Tech Publications, Switzerland*.
18. Adetunji, O.R., Adetona, J.A. and Okediran, I.K. (2016) Computer Aided Design and Analysis of Prototype Rotary Furnace using Visual Basic Software: *Solid State Phenomena*. Vol. 246, pp 207-212; *Published by Trans Tech Publications, Switzerland*, doi; 10.4028, Available on line [www.scientific.net/ssp.246.207](http://www.scientific.net/ssp.246.207).
19. Adetunji, O.R., Akinbo, A.A and Adesusi, O.M (2016) Effect of Carburizing and Nitriding on Mechanical Properties of Medium Carbon Steel, Proceedings of Nigerian Metallurgical Society Conference, Kaduna, 2016.
20. Ude O.O., Adetunji, O.R., Kuye, S.I., Dare, E.O.and Alamu, K.O..(2016) Corrosion Behaviour Of Brass, Coated Mild And Stainless Steels In 1m Sodium Hydroxide Solution Using Polarization Method 159-164, COLENG Proceedings, March 7-11, 2016.
21. Kuye, S.I. Adetunji,O.R., Adekunle, N.O. Abudu, A. (2016) Investigation Of Corrosion Inhibition Of Mild Steel In 0.5 M Sulphuric Acid In The Presence Of SpondiaMonbin Extract 165-170, COLENG Proceedings, March 7-11, 2016.
22. Adetunji, O.R, Balogun, B.A and Fasasi, A.T. (2016) Development of a Motorized Maize Shelling Machine, Proceedings of the 2016 International Conference on SET: A driving force for sustainable development tagged COLENG Proceedings 2016.
23. Adetunji, O.R, Adegbesan, O.O. and Okediran, I.K. (2016)Protective Efficiency of Epoxy Resin Coating on Mild Steel Plate in HCl, NaOH and Distilled Water.Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development, 184-189



24. Akinyemi, O.J., Adetunji, O.R. Kuye,S.I. and Dare, E.O. (2016)Corrosion Performance Of Electroplated Steel In Tomato, Orange and Pineapple Juices 171-176 ,Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development
25. Adetunji, O.R. Balogun, B.O. and Fasasi, A.T.(2016) Development Of A Motorized Maize Shelling Machine 230-235 ,Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development.
26. Osanyinpeju, K.L., Aderinlewo, A.A., Adetunji, O.R. and. Ajisegiri, E.S. (2016) Development Of Solar Powered Poultry Egg Incubator 278-283, Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development
27. Busari, O.B., Adetunji, O.R., Aiyedun, P.O. and Aderibigbe S.G.(2016) Development of a low cost rice milling machine, Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development.
28. Abiola, R.J., Akinyele J.O., Adewuyi, A.P. and Adetunji, O.R. (2016) The use of recycled plastic bottles in reinforce concrete waffle slab.Proceedings of the 2016 International Conference on SET: A driving force for sustainable Development.
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30. Kuye, S.I. Adetunji,O.R., Adekunle, N.O., Abudu, A. (2016) Investigation Of Corrosion Inhibition Of Mild Steel In 0.5 M Sulphuric Acid In The Presence Of SpondiaMonbin Extract 165-170, COLENG Proceedings, March 7-11, 2016.

### 2.3.10.2 Patent

S/N	NAME	PATENT
1	Prof. P.O. Aiyedun	<p>Applicants: University of South Africa, Republic of South Africa.</p> <p>Application: 2016/ 06582</p> <p>Filing Date: 23<sup>rd</sup> September, 2016.</p> <p>Our Ref: P74644ZP00</p> <p>Name of Inventor (s): ALAYANDE, Samson Oluwagbemiga  DARE, Enoch Olugbenga  AKINLABI, Akinola Kehinde  <b>AIYEDUN, Peter Olaitan</b>  MSAGATI, Titus A.M</p> <p>Title of Invention: “Recovery of Crude Oil from a Crude Oil Adsorbent and Simultaneous Regeneration of the Adsorbent.”</p>

## **2.3.11 DEPARTMENT OF MECHATRONICS ENGINEERING**

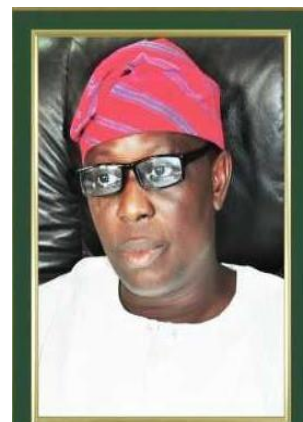
### **2.3.11.1 Publications**

1. Akangbe O.<sup>1</sup>, **Akinyemi J.O** Adeosun O.J., Badejo A. A. and Dairo O.U. (2016): Modeling the Climate Variability Impacts on Maize Yield in Rain Forest Ecological Zone of Nigeria. Proceedings of the International Conference of the College of Engineering. Federal University of Agriculture, Abeokuta.

## 2.4 COLLEGE OF ENVIRONMENTAL RESOURCES MANAGEMENT (COLERM)

### 2.4.1 Overview of the College

The College of Environmental Resources Management was established with four other Colleges at the inception of the University of Agriculture, Abeokuta in 1988. Presently, the Departments in the College which offer five-years Bachelor degree programmes are: Department of Aquaculture and Fisheries Management, Department of Environmental Management and Toxicology, Department of Forestry and Wildlife Management and Department of Water Resources Management and Agro meteorology.



**Prof. C. O. Adeofun**  
Dean, COLERM

### 2.4.2 Students' Statistics

S/N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	<b>AQFM</b>	48	38	<b>86</b>	47	41	<b>88</b>	47	52	<b>99</b>	60	35	<b>95</b>	51	65	<b>116</b>	0	0	<b>0</b>	253	231	<b>484</b>
2	<b>EMT</b>	38	44	<b>82</b>	41	46	<b>87</b>	45	41	<b>86</b>	36	42	<b>78</b>	45	36	<b>81</b>	0	0	<b>0</b>	205	209	<b>414</b>
3	<b>FWM</b>	77	13	<b>90</b>	59	13	<b>72</b>	51	55	<b>106</b>	64	26	<b>90</b>	76	29	<b>105</b>	0	0	<b>0</b>	327	136	<b>463</b>
4	<b>WRMA</b>	76	4	<b>80</b>	69	9	<b>78</b>	81	16	<b>97</b>	71	12	<b>83</b>	93	9	<b>102</b>	0	0	<b>0</b>	390	50	<b>440</b>
	<b>Sub-Total</b>	<b>239</b>	<b>99</b>	<b>338</b>	<b>216</b>	<b>109</b>	<b>325</b>	<b>224</b>	<b>164</b>	<b>388</b>	<b>231</b>	<b>115</b>	<b>346</b>	<b>265</b>	<b>139</b>	<b>404</b>	<b>0</b>	<b>0</b>	<b>0</b>	1,175	626	<b>1,801</b>

### 2.4.3 Statistics of Promoted Staff in the College of Environmental Resources and Management

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	<b>COLERM</b>							
1	<b>AQFM</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
2	<b>EMT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
3	<b>FWM</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
4	<b>WRMA</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>SUB TOTAL</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>

### 2.4.4 Staff Disposition

S/N	COLLEGE/ DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
	COLERM						
1	AQFM	13	4	2	2	0	2
2	EMT	11	3	3	2	0	2
3	FWM	16	2	5	0	0	2
4	WRMA	10	3	3	2	1	1
	SUBTOTAL	50	12	13	6	1	7

## 2.4.5 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND TOXICOLOGY

### 2.4.5.1 Introduction

The Department of Environmental Management and Toxicology, being the first of its kind in Nigeria, was established in 1989 to provide skilled manpower, trained specifically for environmental surveillance, monitoring and management as against the present practice where these tasks were performed by people trained in basic and applied sciences.

The academic programme in the department is designed to provide the training needed for an understanding of the environment and to build upon this foundation by exploring in some depths, specific aspects such as resource depletion, recycling, re-use and the impact of science and technology on the environment.

The Department has trained about five hundred students to date. Many of the students are working in government establishments, industries and others have gone for their post-graduate programmes at home and abroad.

The programme ranks among the most popular in the University because of increased public awareness to environmental matters. There is also increased collaboration between the Department and environmental related agencies such as FEPA, OGEPA, LAWMA and other non-governmental organizations.

#### **2.4.5.2 Research in progress**

1. The geochemical characterization of active and abandoned quarries in parts of Nigeria which started in the year 2006 continues.
2. Comparison of *Eleusine indica* and *Sida corymbosa* in the Phytoremediation of heavy metal contaminated soil.
3. Assessment of impact of Pit latrine and deep well on the health of inhabitants in Ode – Remo.
4. Effect of abattoir on the health of inhabitants living around Lafenwa Cattle market.
5. Remediation of textile effluent polluted soil using composted market waste and kenaf (*Hibiscus cannabinus* Linn.).
6. Effect of composted market waste on the phytoremediation potential of sunflower (*Helianthus annuus*).
7. Assessment of fertility and phytotoxicity of dairy sludge on the performance of kenaf (*Hibiscus cannabinus* Linn.).
8. Effect of Fuel-wood utilization on air quality and human respiratory health in Odeda area local governments areas of Ogun state.
9. Concentration, distribution and health risks assessment of phthalate esters in selected rivers in Ogun State: impact of wastewater treatment plants.
10. Estimation of biodegradable waste from households for Biogas production in Abeokuta city.
11. Impacts of emission from domestic/municipal waste burning on air quality and human health Abeokuta city.
12. Soundscape analysis and noise prediction using GIS in Abeokuta city.

#### **2.4.5.3 Research Completed**

1. Determination of organic pollutants on dumpsite in Abeokuta metropolis.
2. Heavy metals uptake were less in the application of composted market waste compared to the application of inorganic fertilizer (NPK 15:15:15) in both kenaf (*Hibiscus cannabinus* Linn.) and sunflower (*Helianthus annuus*).
3. Higher growth and yield parameters were observed with the application of composted market waste compared to NPK application.

4. Kenaf (*Hibiscus cannabinus* Linn.) and sunflower (*Helianthus annuus*) can be used to clean up heavy metal contaminated soil.
5. Dairy sludge had higher concentration of soil nutrient like organic carbon, nitrogen, phosphorus, potassium and calcium.
6. Dairy sludge application improved the growth and yield of kenaf (*Hibiscus cannabinus* Linn.).
7. Heavy metals like lead (Pb), cadmium (Cd) and nickel (Ni) analyzed in both soil and kenaf (*Hibiscus cannabinus* Linn.) were below the detection limit. Determination of heavy metals in soil and water in the vicinity of mechanic village in Abeokuta.
8. Water quality Assessment of Drinking Water in Abeokuta Metropolis
9. Kenaf (*Hibiscus cannabinus* Linn.) and sunflower (*Helianthus annuus*) uptake heavy metals like lead (Pb), cadmium (Cd), copper (Cu) and Zinc (Zn) from industrial effluent polluted soil.
10. Determination hypoxia threats in surface water, traversing in Abeokuta rural areas, Ogun state, Nigeria.
11. Determination of the threat of hypoxia in urban surface waters generated from commercial activities such as locust bean processing, abattoir, Adire making, dredging on various rivers in Ogun metropolis
12. Analyzing different metal concentration within different water sample and classify them using piper trilinear triangle
13. Water Quality Assessment in Oil Producing Area, A Case Study of Arogbo and it's Environ in Ese-Odo Local Government Area of Ondo State
14. Evaluation sustainable Water Quantity in Ogun-Osun River Basin Using WEAP<sub>21</sub> Model
15. Evaluation of the Hydrocarbon level in groundwater in Areas within the Odeda Local Government as a result of Emergent growth of Oil and Gas Filling Stations.
16. The Evaluation of Sustainable Water Demand in Ogun-Osun River Basin Using WEAP<sub>21</sub> Model
17. The Efficiency of Various Species of Trees Used for CO<sub>2</sub> Sequestration along Major Routes in Abeokuta Metropolis.
18. Effect of different preservation methods on the Trace metal concentration and freshness quality of fish.

#### 2.4.5.4 Achievements

- Our department produced five (5) First Class students (2 males and three females) in the just concluded session (2015/2016).
- Fellowship Award for Ph.D of Mr Olorundare O. T by Water Research Commission (Pretoria), South Africa
- International Climate Protection Fellowship (Alexander Von Humboldt Foundaton) Germany to Mr. Omonijo A. G.
- IFS grant for Dr. Olujimi O.O.
- International Climate Change and Global Water Problems (EXCEED) Germany to Dr. Olujimi O. O.
- The Department recently purchased four sets of Core i3 Desktop Computers for GIS practical for undergraduate and postgraduate students.

#### 2.4.6 Journal Publications of Staff in 2012/2013 academic session to date

1. Achi, H.A., **Adeofun, C.O.**, Ufoegbune, G.C., Gbadebo, A.M. and Oyedepo, J.A. 2012 (In Press). Disposal Sites and Transport Route Selection using Geographic Information System and Remote Sensing in Abeokuta, Nigeria. *Global Journals of Human and Social Sciences*, **12** (12)
2. **Bada B.S.** and Olarinre, T. A. (2012). Characteristics of soils and heavy metal content of vegetation in oil spill impacted land in Nigeria. *Proceedings 27th Annual International Conference on Soils, Sediments, Water and Energy*. Calabrese E., Kostecki P. T., Dragun J., Teaf C. and Ludwig D. (Eds.) Volume 17: 1- 10. Published by AEHS Foundation.
3. Socio-Economic Factors, Occupation and Family Size as Predictors of Public Perception of Water Resources Planning in Oyo State, Nigeria. A.A. Amori, **O.Z. Ojekunle** and A. A. Makinde New York Science Journal 2012;5(1):128-131]. (ISSN:1554-0200). <http://www.sciencepub.net/newyork>. 18
4. Qualitative Assessment of the effect of Thunderstorms on Rainwater harvesting from Rooftop Catchments at Oke-Lantoro Community in Abeokuta, Southwest Nigeria. Eruola A.O., Ufoegbune G.C., **Ojekunle Z.O.**, Makinde A.A. and Amori A.A. Resources and Environment. Scientific and Academic Publishing 2012 2(1): 27-32.
5. Analysis of Ground Water Quality of Hand-Dug wells in Peri-Urban Area of Obantoko, Abeokuta, Nigeria for Selected Physico-Chemical Parameters. **Taiwo, A.M.**, A.O Adeogun, K.A Olatunde and K.I. Adegbite. *Pacific Journal of Science and Technology*. 2011 12(1):527-534
6. **Oguntoke O**, Omonijo AG, Annegarn JH (2012). Influence of meteorology parameters on pulmonary tuberculosis morbidity in two eco-climatic zones in Nigeria. *African Journal of Health Sciences* (Kenya), 20 (1-2):69–77.

7. **Oguntoke O**, Odeshi TA, Annegarn JH (2012). Assessment of noise emitted by vibrator-block factories and the impact on human health and urban environment in Nigeria. *International Journal of Applied Environmental Sciences* (South Korea), 7: 57–68.
8. **Oguntoke O**, Awanu EA, Annegarn JH (2012). Impact of Cement factory operations on air quality and human health in Ewekoro Local Government Area, South-western Nigeria. *International Journal of Environmental Studies* (UK) 69(6):934–945.
9. **Oguntoke O**, Adebulehin AT, Annegarn JH (2013). Biomass energy utilization, air quality and the health of rural women and children in Ido LGA, South-west Nigeria. *Indoor and Built Environment* (UK), 22: 528-534.
10. Omonijo AG, **Adeofun CO**, **Oguntoke O**, Matzarakis A (2013). Relevance of thermal environment to human health: a case study of Ondo State, Nigeria. *Theoretical and Applied Climatology* (UK) 113 (1–2): 205–212.
11. **Oguntoke O** (2013). Intra-urban pattern of cancer morbidity and the associated socio-environmental factors in Ile-Ife, South-western Nigeria. *Herald Journal of Geography and Regional Planning*, 2 (1): 48 – 55.
12. **Oguntoke O**, Komolafe OA, Annegarn JH (2013). Statistical analysis of shallow well characteristics as indicator of water quality in parts of Ibadan city, Nigeria. *Journal of Water, Sanitation and Hygiene for Development* (USA), 3(4): 602–611.
13. **Oguntoke O**, Otusanya KO, Annegarn JH (2013). Emission of pollutants from wood-waste incineration at sawmills in Abeokuta metropolis, Nigeria. *International Journal of Environmental Studies* (UK), 70(6): 956 – 967.
14. **Oyebanji FF**, **Adeofun CO**, **Adedeji OH**, Ekpo UF, **Oguntoke O**, **Ojekunle OZ** (2013). Assessment of Respiratory Health Impact of Fuel-Wood Utilization on Exposed Rural Women in Odeda, Southwestern, Nigeria. *Global Journal of Science Frontier Research* (USA), 13(4): 22–30.
15. **Oguntoke O**, Ojelede EM, Annegarn JH (2013). Frequency of mine dust episodes and the influence of meteorological parameters in the Witwatersrand area, South Africa. *International Journal of Atmospheric Sciences* (India), 2013 (2013), Article ID 128463, 10 pages <http://dx.doi.org/10.1155/2013/128463>.
16. **Oguntoke O** (2014). Spatial and socio-demographic disparities of Cancer morbidity in Nigeria: Patterns and factors. *Malaysian Journal of Society and Space (School of Social, Development and Environmental Studies, Universiti Kebangsaan Malaysia) - GEOGRAFIA* 10 (1): 25 - 35.
17. **Oguntoke O**, Annegarn JH (2014). Effectiveness of Mediation in the resolution of environmental complaints against the activities of gold mining industries in the Witwatersrand region. *The Clean Air Journal* (South Africa), 24 (2):17-23.



18. **Oguntoke O**, Olatinwo M, Taiwo OJ (2015). Spatial Association between Environmental Noise Levels and Occurrence of Children Hearing Impairments in Ibadan Metropolis, Nigeria. *Applied Environmental Research* (Thailand), 37(3): 79-89.
19. Odufuwa, B. O., **Adedeji, O. H.**, Oladesu, J. O. and Bongwa, A. (2012). Flood of fury in Nigerian Cities. *Journal of sustainable Development*. 5 (7): 69-79.
20. **Adedeji, O. H.** and Gbadegesin, A. S. (2012). Base cation leaching from the canopy of a Rubber (*Hevea Brasiliensis* Willd. Muell-ARG) Plantation at Ikenne, South West Nigeria. *Ethopian Journal of Environmnetal Studies and Management EJESM* 5(4): 384-390. <http://dx.doi.org/10.4314/ejesm.v5i4.7>
21. **Olujimi, O.O.** Fatoki, O.S., Odendaal, J.P. and Daso, A.P. 2012. Chemical monitoring and temporal variation in levels of endocrine disrupting chemicals (phenols and phthalate esters) from selected wastewater treatment plant and freshwater systems in Cape Town, South Africa. *Microchemical Journal* 101: 11-23.
22. Olu-owolabi, B. I., Oputu, O. U., Adebowale, K. O., Ogunsolu, O. and **Olujimi, O. O.** 2012. Biosorption of Cd<sup>2+</sup> and Pb<sup>2+</sup> ions onto maize straw and cocoa pod waste: kinetic and equilibrium studies. *Scientific Research and Essay* 7(15): 1614 – 1629.
23. Daso A.P., Fatoki O.S., Odendaal J.P. and **Olujimi O.O.** 2012. Polybrominated diphenyl ethers (PBDEs) and 2,2',4,4',5,5'-hexabromobiphenyl (BB-153) in landfill leachate in Cape Town, South Africa. *Environmental Monitoring and Assessment*, DOI: 10.1007/s10661-012-2565-5.
24. Daso A.P., Fatoki O.S., Odendaal J.P. and **Olujimi O.O.** 2012. A survey of commonly investigated Polybrominated diphenyl ethers (PBDES) and 2,2',4,4',5,5'- hexabromobiphenyl (BB-153) in Sewage sludge samples from four wastewater Treatment plants in cape town, South Africa. *Fresenius Environmental Bulletin* 20 (5a): 1239-1248.
25. Daso, A.P., Fatoki, O.S., Odendaal, J.P., **Olujimi, O.O.** 2012. Occurrence of selected polybrominated diphenyl ethers and 2,2',4,4',5,5'- hexabromobiphenyl (BB-153) in sewage sludge and effluent samples of a wastewater treatment plant in Cape Town, South Africa. *Archives of Environmental Toxicology and Contamination*. 62: 391-402.
26. Fatoki, O.S. **Olujimi, O.O.** Odendaal, J.P. Genthe B. Potential health risks assessment of phthalate esters in freshwater systems in the City of Cape Town, South Africa in “Recent Advances in Plasticizers” edited by Mohammad Luqman 2012: 191-212. ISBN 978-953-51-0363-9.
27. **Taiwo, A.M., Olujimi, O.O., Bamgbose, O. and Arowolo, T. A.** Water quality monitoring in Nigeria: Situational analysis, health risk assessment and future management strategy Edited by Kostas Voudouris and Dimitra Voutsas, 2012: 301-320. ISBN 978-953-51-0486-5.

28. **Olujimi, O.O.**, Fatoki, O.S., Daso, A.P., Akinsoji, O.S., Oputu, O.U., Oluwafemi, O.S. and Songca, S.P. Levels of nonylphenol and bisphenol A in wastewater treatment plant effluent, sewage sludge and leachate from Cape Town, South Africa in “Handbook of Wastewater Treatment: Biological Methods, Technology and Environmental Impact” Edited by Cesaro J. Valdez and Enrique M. Maradona 2012 ISBN: 978-1-62257-591-6.
29. **Adedeji, O.H.**, Olayinka, O.O., and Oladimeji, O (**In Press**). Physicochemical and microbiological examination of hand-dug wells, boreholes and public water sources in selected areas of Ibadan, Nigeria. *Journal of Applied Science and Environmental Management*. Published by World Bank Assisted National Agricultural Research Project (NARP) [University of Port-Harcourt. www.bioline.org.br/ja](http://www.bioline.org.br/ja)
30. **Adedeji, O.H.**, Olayinka, O., Badejo, A.A. and Osunde, E.O (**In Press**). Assessing heavy metals on soil and groundwater around petrol stations in Abeokuta metropolis, Nigeria. *Journal Of Science Research Faculty of Science, University of Ibadan, Ibadan. Nigeria*
31. Adedeji, O.H., Olayinka, O.O., and Tope-Ajayi, O.O. (2016). **Mapping of Traffic-Related Air Pollution Using GIS Techniques in Ijebu-Ode, Nigeria. *Indonesian Journal of Geography*, 48 (1): 76 – 86. Published by the Faculty of Geography, Gadjah Mada University (UGM ) and The Indonesian Geographers Association, Indonesia**
32. Tope-Ajayi, O.O., **Adedeji, O.H.**, Adeofun, C.O. and Awokola, O. (2016). Land Use Change Assessment, Prediction Using Remote Sensing and GIS Aided Markov Chain Modelling at Eleyele Wetland Area, Nigeria. *Journal of Settlements and Spatial Planning*, 7(1), 51-63. DOI: 10.19188/06JSSP012016. Published by Centre for Research on Settlements and Urbanism. Babeş-Bolyai University, Faculty of Geography, Department of Human Geography and Tourism 5-7, Clinicilor Street, Cluj-Napoca, 400006, Romania
33. Olayinka, O.O., Adedeji, O.H. and Balogun, Yewande. (2015). **Air and Heavy Metal Pollution around a Steel Foundry in Ogijo, Ogun State, Nigeria. *Journal of Science Research*, Volume 14, pp 9-16 Published by the Faculty of Science, University of Ibadan.**
34. Adedeji, O.H., Tope-Ajayi, O.O. and Abegunde, O.L. (2015): **Assessing and Predicting Changes in the Status of Gambari Forest Reserve, Nigeria Using Remote Sensing and GIS Techniques. *Journal of Geographic Information System*, 7, 301-318. Published by SciRes. <http://www.scirp.org/journal/igis> USA**
35. Adedeji, O.H. and Olayinka, O.O. (2015): **Assessment Groundwater Contamination by Textile Effluent of Discharges in Ikorodu, Nigeria. *Applied Environmental. Research*, 37 (1): 35-48. Published by Environmental Research Institute, Chulalongkorn University, Bangkok., Thailand.**
36. Adedeji, O.H. and Adeofun, C.O. (2014). **Spatial pattern of the land cover change using remotely sensed imagery and GIS: A case study of Omo-Shasha-Oluwa forest reserve, SW. Nigeria (1986-2002). *Journal of Geographic Information System*, 6, 375-385. Published by SciRes. <http://www.scirp.org/journal/igis> USA**

37. Adedeji, O.H. and Gbadegesin, A.S. (2014): Dynamics and fluxes of nutrient in throughfall in rubber plantation (*Hevea brasiliensis Willd. Muell-Arg*) at Ikenne, SW, Nigeria. *Trends in Applied Science Research*, **9(5): 200-218** Published by Science Alert. New York, USA
38. Adedeji, O.H. and Gbadegesin, A.S. (2014): Comparing throughfall and litterfall nutrient fluxes in a rubber (*Hevea brasiliensis Willd. Muell-Arg*) Plantation Agro-ecosystem at Ikenne, South-west Nigeria. *Applied Environmental. Research*, **36(3): 17-28**. Published by Environmental Research Institute, Chulalongkorn University, Bangkok. Thailand.
39. Oladoye, A.O., Adedeji, O.H., Osinowo, O.O., Basiru, A.O. and Yisau, J.A. (2014). Phytosociological Assessment of Understorey Species in *Leuceana leucocephala* and *Gmelina arborea* stands in Federal University of Agriculture, Abeokuta. *Forests and Forest Products Journal* **6, 9-17**. Published by Forest and Forest Product Society.
40. Adedeji, O.H. and Olayinka, O.O. (2014): Micro-Pollutants in urban residential roof runoff: Environmental and health implications. *Journal of Environmental Science, Toxicology and Food Technology*. **8, (2) Ver. III: 55-63**. Published by International Organization of Scientific Research USA [www.iosrjournals.org](http://www.iosrjournals.org)
41. Adedeji, O.H., Olayinka, O.O. and Nwanya, F.C. (2014): Soil and water pollution levels in and around urban scrapyards. *Journal of Environmental Science, Toxicology and Food Technology*, **8(4) Ver. II, 01-08**. Published by International Organization of Scientific Research. USA [www.iosrjournals.org](http://www.iosrjournals.org)
42. Adedeji, O.H., Adebayo, H. O. and Sotayo, E.I. Assessing environmental impacts of inland sand mining in parts of Ogun State, Nigeria. *Ethiopian Journal of Environmental Studies and Management*. **7(5): 478 – 487**.
43. Adedeji, O.H. and Olayinka, O.O. (2014): Concentrations of heavy metals in dumpsite leachate and effects on adjacent stream on Ajakanga, Ibadan, Nigeria. *Journal of Applied Science in Environmental Sanitation*, **9(2):113-122**. Published by Department of Environmental Engineering, Sepuluh Nopember Institute of Technology (ITS) Surabaya, and Indonesian Society of Sanitary and Environmental Engineers (IATPI) Jakarta, Indonesia <http://www.trisanita.org/iases>
44. Olayinka, O.O. and Adedeji, O.H. (2014): Concentration of heavy metals in soils and water near some mechanic villages in Abeokuta Metropolis, Ogun State, Nigeria. *Journal of Advances in Chemistry*, **8(3):1667-1679**, Published by Council for Innovative Research. USA [www.cirworld.com](http://www.cirworld.com),
45. Olayinka, O.O. and Adedeji, O.H. and Dada, O. (2014): Determination of concentrations of heavy metals in municipal dumpsite soil and plants at Oke-Ogi, Iree, Nigeria. *International Research Journal of Pure & Applied Chemistry*, **(6):656-669**, Published by Science Domain International, Third Floor, 207 Regent Street, London, W1B 3H United Kingdom <http://www.sciencedomain.org>

46. Olayinka, O.O. **Adedeji, O.H.** and Sanni, S.S. (2014): Water quality of hand-dug wells at close proximity to pit latrine and its health implication in Isara-Remo, Nigeria. [\*Journal of Environmental Science, Toxicology and Food Technology\*](#), 8(6):Ver.II:56-64. Published by International Organization of Scientific Research. USA [www.iosrjournals.org](http://www.iosrjournals.org)

#### 2.4.7 Papers already accepted for publication

- ✓ The Evaluation of Sustainable Water Demand in a Coast Environment Using WEAP<sub>21</sub> Model. **Z.O. Ojekunle**, O.K. Ojo, A.O. Idowu, O.Martins, G.O. Oluwansanya and V.O. Ojekunle. Accepted for publication in *African Geoscience Review*. 2012
- ✓ Effect of different preservation methods on the Trace metal concentration and freshness quality of fish. **K.A Olatunde**, O. Bamgbose, T.A Arowolo, F.O.A George. Accepted for publication in *African Journal of Biotechnology*. 2012
- ✓ **O. O. Olayinka**<sup>\*1</sup>, I. B. Ariyo<sup>1</sup>, T. R. Fasola<sup>2</sup>, J. A. Oyeniran<sup>3</sup> and S.K. Omotugba<sup>1</sup>. Phytochemical Constituents, Elemental Composition and Anti-Microbial Activity of *Zanthoxylum zanthoxyloides* (LAM.) watern. *Journal of Forestry Research and Management* (In Press).
- ✓ Gbadebo, A. M., Kehinde, I. A. and **Adedeji, O. H.** (In Press) Participatory Roles of women in quarrying activities in Abeokuta Metropolis . *Global Journals of Human and Social Sciences Volume 12 Issue 13*.
- ✓ **Adedeji, O. H.** and Gbadegesin, A. S. (In Press) Throughfall and litterfall nutrient fluxes in a rubber (*Hevea Brasiliensis* Willd. Muell-ARG) plantation agroecosystem at Ikenne, SW Nigeria. *British Journal of Applied Sciences and Technology*.
- ✓ **Adedeji, O. H.**, Odufuwa, Bashir. O. and Adebayo, H. O. (In Press). Building capabilities for flood disaster and hazard preparedness and risk reduction in Nigeria: Need for spatial Planning and Land Management. *Journal of Sustainable Development Africa*.

#### 2.4.8 Collaborations and Linkages

The Department has established collaboration with environmental organizations, parastatals and N.G.Os such as LAWMA, NEST, NESREA, NCR to further strengthen and position the Department to achieve her mission, vision and objectives.

## 2.5 COLLEGE OF FOOD SCIENCE AND HUMAN ECOLOGY (COLFHEC)

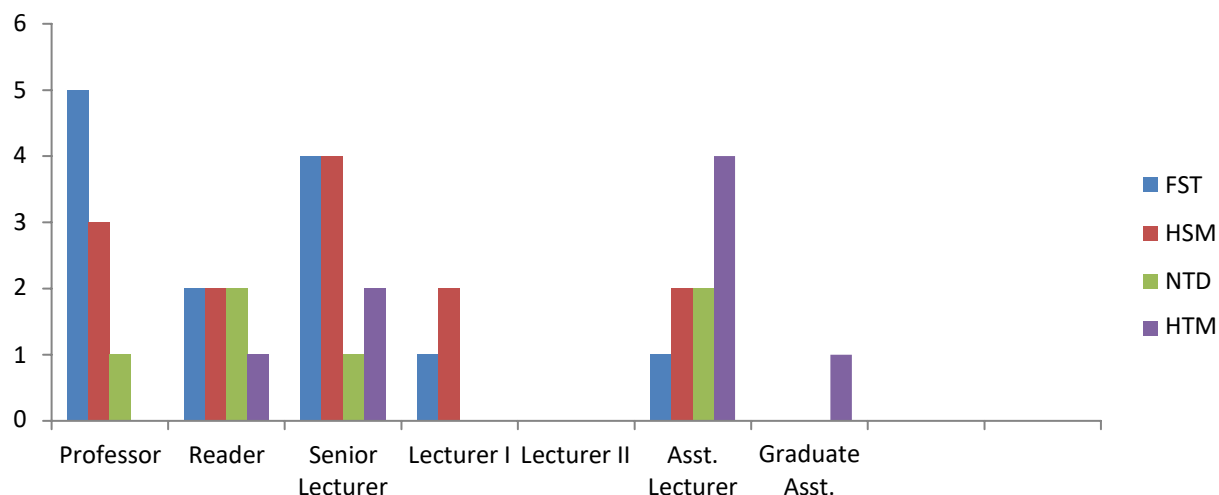
### 2.5.1 Overview of the College

The College of Food Science and Human Ecology is waxing stronger day by day in our teaching, research and community engagements. Kudos to the leadership of the Department of Food Science and Technology (FST), Department of Home Science and Management (HSM), Department of Nutrition and Dietetics (NTD) and Department of Hospitality and Tourism (HTM). As a College, we have keyed into the University shared values of Excellence, Integrity, Global Relevance, Innovations and Service to Humanity.



**Prof. L.O. Sanni**  
*Dean, COLFHEC*

### 2.5.2 Teaching Staff Enrolment



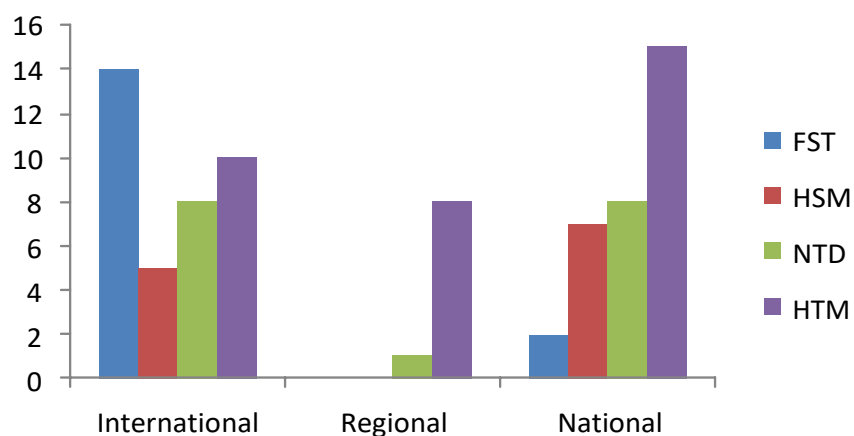
### 2.5.3 2015-2016 Student Enrolment

Levels	Food Science and Technology (FST)	Home Science & Management (HSM)	Nutrition and Dietetics (NTD)	Hospitality and Tourism (HTM)
<b>100</b>	73	48	63	53
<b>200</b>	95	85	90	78
<b>300</b>	96	80	78	78
<b>400</b>	101	74	73	85
<b>500</b>	84	-	-	73
<b>Total</b>	<b>449</b>	<b>287</b>	<b>304</b>	<b>367</b>

## 2.5.4 2015 Graduates

Degree Programme	First Class Upper	Second Class Upper	Second Class Lower	Third Class	Pass	Total
FST	1	31	35	13	4	84
NTD	-	35	27	3	-	78
HSM	-	20	51	12	-	83
HTM	-	-	-	-	-	-
<b>Total</b>	<b>1</b>	<b>86</b>	<b>113</b>	<b>28</b>	<b>4</b>	<b>245</b>

## 2.5.5 Summary of Published Journal Articles by Departments



## 2.5.6 Grant/Awards Won by Members of the College

Awardees	Grant /Awards	Prime Sponsors	Designations
<b>Professor Lateef Sanni</b>	Cassava: Adding Value for Africa II (CAVA II) hoisted in the Federal University of Agriculture, Abeokuta, Nigeria (- Country Manager)	Bills and Melinda Gates Foundation	Country manager
	Project on the Improvement of the livelihoods of smallholder cassava farmers through better access to growth markets (Cassava Gmarkets).	EU- Greenwich University, NRI, UK	Country Coordinator
	Gains and Losses from Cassava and Yam (GRATITUDE)	European Union-- Greenwich University, NRI, UK	Project coordinator
	Project on Improving Quality, Nutrition and Health Impacts of Inclusion of Cassava	International Fund For Agriculture Development (IFAD)-MC Gill University, Canada	Principal Investigator

	Flour in Bread Formation in West Africa(Nigeria & Ghana)		
<b>Dr A. A. Adebowale</b>	Project on “Up scaling the Nigerian Flash Drying Experience for Sustainable Regional Trade and Income generation in West Africa” through grant number	CORAF-WEARD-World Bank	Coordinator
<b>Dr M.O. Adegunwa</b>	A two year fellowship for 2015	African women in agricultural research and development.	Award fellow
<b>Olatunde,G.O</b>	Project on sweet potato for Health and Wealth in Nigeria (Sweetpotato Rainbow Project)	Federal Ministry of Agriculture & Rural Development AGR/Agric/LU/954/2013	Coordinator
<b>Dr C.A. Oladoyinbo</b>	A two year fellowship for 2015	African women in agricultural research and development.	Fellow

### 2.5.7 Infrastructural projects

<b>Projects</b>		<b>Funding sources/Donors</b>	<b>Benefits</b>
Laboratory	Furnishing of the postgraduate laboratory of the College	EU-Greenwich University-FUNAAB Projects	Improvement in teaching-learning and Research
Laboratory	Provision of Bakery equipment	Africa-Brasil Innovative market place project	Improvement in teaching-learning, Research and capacity building for entrepreneurial development in baking technology
Laboratory	Provision of Microbiology/Biotechnology equipment	The third world academy of science	Improvement in teaching-learning and Research
Library	Furnishing (Provision of Chairs) of the College Library and donation of books.	Subvention from the University and philanthropic goodwill from members of the College.	Improvement in teaching-learning and Research
Library	Donation of Textbooks on all the options in Home science	Donated by undergraduate and post graduate students of the department.	Improvement in teaching-learning and Research

### 2.5.8 Workshop(s) and Training(s) Hosted by the College

Workshop	Sponsors/Donors	Hosted by	Benefits
World Health Day 2015 7 April, 2015	COLFHEC	Dr. A. O. Obadina Dr. A. M. Omemu	Provision of extension service in human capacity development and values re-orientation
A 5 day Food Safety Training Programme in collaboration with the International Life Science Institute (ILSI) and the University of Ghana Legon. 15 <sup>th</sup> -19 <sup>th</sup> June, 2015	The International Life Science Institute (ILSI).	COLFHEC	Provision of extension service in human capacity development and values re-orientation
Inaugural Lecture of Prof Sanni L O., 21 May 2015	Self	Prof Sanni L O.	Town-Gown display of research outputs and exhibitions
Nutrition Society of Nigeria, Ogun State NTD	FUNAAB	Dr WAO Afolabi  Dr. O O Onabanjo  Dr. (Mrs) C A Oladoyinbo	
Dietetics of Nigeria (IDN) conference	Babcock  UNICEF etc.	Babcock and NTD	Awareness on Severe Acute Malnutrition (SAM) for Institute of Dietetics of Nigeria (IDN) members

### 2.5.9 2015-2016 Student Enrolment

Levels	HTM	HSM
100	53	48
200	72	85
300	74	80
400	84	74
500	73	-
FNG	2	-
<b>TOTAL</b>	<b>367</b>	<b>287</b>



### 2.5.10 Summary of published Journal articles by departments

	International	Regional	National	Total
HTM	19	1	2	22
HSM	2		2	4

### 2.5.11 Fellowship/Scholarship Award to Members

Awardee	Grant/Award	Prime sponsor	Designations
Dr.(Mrs) M.O. Adegunwa	Two year fellowship (2015-2017)	African Women in Agricultural Research and Development (AWARD)	Post Doc AWARD fellow
Mr A. Adedipe	PhD scholarship	TETFUND	

### 2.5.12 Conferences attended by College members

Conference	Sponsors	Attendee
40 <sup>th</sup> Conference of the Nigeria Food Science and Technology held at Coronation Hall, Government House, Kano, Kano State Oct 24 <sup>th</sup> -26 <sup>th</sup> 2016	G-Market	Dr (Mrs) M.O. Adegunwa
International Conference on Food Science and Human Ecology (ICOFHEC 2016) and safety Enhancement of Edible Products Legislation, Analysis and Management Workshop (SELEMAT 2016) on Delivering Innovative Approaches in Food, health and Wellbeing for Sustainable Livelihood, held at FUNAAB 21 <sup>st</sup> -24 <sup>th</sup> November, 2016	FUNAAB	Mr. E.A. Adeyefa Mr. A. Adedipe Mr. I. A. Kukoyi Miss C.O. Oduntan Mrs. A.O. Oladosu Dr H.A. Bakare Dr M.O. Adegunwa Prof A.M. Omemu
ICOFHEC 2016 Conference and SELMAT 2016: 21ST – 24TH NOVEMBER, 2016. FUNAAB, COLFHEC	FUNAAB	Prof. Tolu- Eni-Olorunda Dr. (Mrs.) O. O. Braide Dr. (Mrs.) K. O. Adubi Dr. (Mrs.) A. A. Amubode Mr. O. J. Olabode Mr. A. O. Adeboye Miss T. K. Adeboye
Conference on Contemporary Art/Textile and Graphics @ Orebro, Sweden.	SELF	Mr. O. J. Olabode

### 2.5.13 Trainings, workshops, meetings and Sabbatical attended by College members

S/N	NAMES	PROGRAMME	PLACE	DATE
1	Miss O.C. Oduntan; Mrs O.A. Oladosu	Two-day capacity building workshop on 'Modern Methods of Teaching and Learning in Higher Education.	FUNAAB	January 25th to 26th, 2016.
2	Miss O.C. Oduntan Mr I.A. Kukoyi	Training on Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI)	International scholars, FUNAAB	Feb29 <sup>th</sup> -24 <sup>th</sup> March, 2016
3	Mrs O.A. Oladosu	Food Safety Training for Nutritionists and other Health Professionals	International scholars, FUNAAB	12 <sup>th</sup> -16 <sup>th</sup> Sept, 2016
4	Mr I. A. Kukoyi	SIWES 2-Day Step Down Capacity Building Training for Departmental SIWES and FPY Coordinators and College Representatives on "Building Work-Place Professional Values and Competencies for Students and Supervisors. FUNAAB	FUNAAB	2016
5	Mr I.A. Kukoyi Dr. H. A. Bakare	Center for Innovation and Strategy in Learning and Teaching (Two-Day Capacity Building Workshop for Academic Staff.	FUNAAB	June 21, 2016
6	Mr A. Adedipe	Three-day Research Workshop for Doctoral Students in collaboration with Syracuse University, USA.	Kenyatta University, Nairobi, Kenya,	July 19-21, 2016.
7	Mr A. Adedipe	One-day Statistical Package for Social Sciences (SPSS) Training.	Kenyatta University, Nairobi, Kenya	March 16, 2016.
8	Dr (Mrs) M.O. Adegunwa	Professorial Retreat: Grant-Winning Professors and Strategic Mentoring	FUNAAB	July 12-13, 2016.
9	Dr (Mrs) M.O. Adegunwa	Advance Science Training at African Doctoral Academy.	Stellenbosch University, Capetown, South Africa,	June 27-July 9, 2016.
10	Dr (Mrs) M.O. Adegunwa	AWARD Women's Leadership and Management Course.	Alisa Hotel, Accra, Ghana	June 19-25, 2016.
11	Dr (Mrs) M.O. Adegunwa	AWARD Regional meeting.	Mensvic Hotel, Ghana	April 26-29, 2016.
12	Dr (Mrs) M.O. Adegunwa	Participant at 2-day meeting on "Improving Quality, Nutrition and Health impacts of	Ibis Tek Board Room, College of Science,	1st - 2nd March, 2016

		Inclusion of Cassava Flour in Bread Formulation in West Africa (Nigeria and Ghana)”	KNUST, Kumasi-Ghana.	
13	Dr (Mrs) M.O. Adegunwa	Participant at 2-day Capacity-Building workshop for Academic staff on Modern methods of Teaching and Learning in higher education.	FUNAAB	January 25-26, 2016
14	Mr. A. O. Adeboye	Modern Methods of Teaching and Learning in Higher Education by Centre of Innovation and Strategy in Learning and Teaching	(CISLT), FUNAAB	25TH – 26TH January, 2016
15	Dr. A. O. Lasode	Modern Methods of Teaching and Learning in Higher Education by Centre of Innovation and Strategy in Learning and Teaching	(CISLT), FUNAAB	25TH – 26TH January, 2016
16	Mr. O. J. Labode	1. Modern Methods of Teaching and Learning in Higher Education by Centre of Innovation and Strategy in Learning and Teaching 2. Visual Art, Graphics Print & Textile Workshop on “Techniques, Styles & Production Methods,	(CISLT), FUNAAB  Uttersberg, Sweden	1ST – 5TH DECEMBER, 2016
17	Miss T. K. Adeboye	Modern Methods of Teaching and Learning in Higher Education by Centre of Innovation and Strategy in Learning and Teaching	(CISLT), FUNAAB	25TH – 26TH January, 2016
18	Dr. (Mrs.) A. A. Amubode	Sabbatical Leave at University of Education, Wenneba, Ghana	Ghana	2016

#### 2.5.14 2016 Postgraduate Graduates

PARTICULARS	PG PROGRAMME	OPTION	NO OF GRADUATES	TOTAL
FST	M. Sc Ph.D.		15 4	15 4
HSM	Ph. D M.Sc. M.Sc.	Clothing and Textile Human Development and Family Studies Clothing and Textile	1 2 4	1 2 4
NTD	M. Sc. Ph. D		3	3

### 2.5.15 Linkages and Partnerships

Prof. A. M. Omemu -Assistant Programme coordinator, Nigeria for ILSI-UGL-FUNAAB Food Safety Training Program, a Collaboration between International Life Science (ILSI) and University of Ghana, Legon (UGL) and FUNAAB.

### 2.5.16 Students' Statistics

S/N	COLLEGE/DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	FST	15	59	74	25	55	80	42	46	88	29	63	92	32	86	118	0	0	0	143	309	452
2	HSM	6	34	40	27	61	88	27	58	85	40	68	108	0	0	0	0	0	0	100	221	321
3	HTM	20	34	54	11	61	72	18	55	73	25	59	84	29	47	76	0	0	0	103	256	359
4	NTD	5	58	63	11	64	75	18	58	76	20	62	82	0	0	0	0	0	0	54	242	296
	Sub-Total	46	185	231	74	241	315	105	217	322	114	252	366	61	133	194	0	0	0	400	1,028	1,428

### 2.5.17 Statistics of promoted staff in the college of Food Science and Human Ecology

S/N	COLLEGE/DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	COLFHEC							
1	FSM	1	0	0	0	1	0	0
2	FST	2	2	0	0	0	0	0
3	HSM	1	0	1	0	0	0	0
4	NTD	0	1	0	1	0	0	0
	SUB TOTAL	4	3	1	1	1	0	0

### 2.5.18 Staff Disposition

S/N	COLLEGE/DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
	COLFHEC						
1	FSM	4	4	1	2	0	2
2	FST	8	5	3	2	0	2
3	HSM	2	7	3	1	0	2
4	NTD	3	5	0	3	0	2
	SUBTOTAL	17	21	7	8	0	8

## 2.5.19 Publications

- 1) Owo, H.O., A Adebowale, O.P. Sobukola, A.O. Obadina, O.E. Kajihusa, M.O. Adegunwa, L.O. Sanni and T.Keith (2016). Absorption isotherms and thermodynamics properties of water yam flour. *Quality Assurance and Safety of Crops & Foods: Pages: 1 – 8*. Published by Wageningen Academy.
- 2) Bakare H.A., Ogunbowale O.D., Adegunwa M.O., and Olusanya J.O. (2016) Effects of pretreatments of banana (Musa AAA, Omini) on the composition, rheological properties, and baking quality of its flour and composite blends with wheat flour. *Food Science and Nutrition*. Published by Wiley Periodicals, Inc, UK. DOI:10.1002/fsn3.378. Available Online at: <http://onlinelibrary.wiley.com/doi/1010002/fsn3.378>
- 3) Poopola, K.K., Onabanjo, O.O., Oguntona, E.B., and Adegunwa, M.O. (2016). Micronutrient Deficiencies and Anthropometric Status of Under-Five Children in Odeda Local Government Area, Ogun State, Nigeria. *Nigerian Journal of Nutritional Sciences*, Vol. 37 (2) 170-179. Published by Nutrition Society of Nigeria.
- 4) Adebowale, A.A., Kareem, S.T., Sobukola, O.P., Adebisi, M.A., Obadina, O.A., Kajihusa, O. E., Adegunwa, M.O., Sanni, L.O., and Keith, T. (2016). Mineral and nutrient Content of High Quality Cassava-Tigernut Composite Flour Extruded Snack. *Journal of Food Processing and Preservation* · DOI: 10.1111/jfpp.13125 Published by Wiley Periodicals, UK. Available online at <http://onlinelibrary.wiley.com>.
- 5) Ekunseitan O.F, Obadina A.O , Sobukola O.P, Omemu A.M, Adegunwa M.O, Kajihusa, O.E, Adebowale A.A. Sanni S.A, Sanni L.O and Keith Tomlins (2016). Nutritional, functional and pasting properties of flour from composites of wheat, mushroom and high quality cassava flour. *Journal of Food Processing and Preservation*. Published by Wiley Periodicals, UK. Available online at <http://onlinelibrary.wiley.com>. DOI: 10.1111/jfpp.13150 .
- 6) Adegunwa, M.O., Omolaja, N.O., Adebowale, A.A. and Bakare H.A. (2016). Quality evaluation of snacks produced from blends of unripe-plantain, bambara groundnut and turmeric flour" *Journal of Food Processing and Preservation*. DOI: 10.1111/jfpp.12760. Published by Wiley Periodicals, UK. Available online at <http://onlinelibrary.wiley.com>.
- 7) Oyindamola Oguntowo, Adewale O. Obadina, Olajide P. Sobukola, Mojisola O. Adegunwa (2016). Effects of processing and storage conditions of cocoyam strips on the quality of fries. *Food Science and Nutrition*. Published by Wiley Periodicals, Inc, UK.
- 8) Adegoke H. Bakare, Onyekachi G. Ozor, Mojisola O. Adegunwa, Temilola Dada, Joseph O. Olusanya and Adedayo Emmanuel Adeyefa (2016). Perception of Nigerian Consumers on the Culinary, Social, and Health Attributes of Pepper Soup, *Journal of Culinary Science & Technology*, 14:4, 277-292, DOI: 10.1080/15428052.2015.1129007. Published by Taylor and Francis, UK.
- 9) Wasiu Awoyale, Lateef O. Sanni, Taofik A. Shittu and Mojisola O. Adegunwa (2016). The pasting, chemical and sensory properties of biofortified cassava root starch-based custard powder. *Journal of food measurement and characterization*.10(2); 292-301. DOI: 10.1007/s11694-016-9306-3 Published by Springer.

- 10) Bukola Olamidun Falode , Adetoun Adedotun Amubode , Mojisola Olanike Adegunwa and Sunday Roberts Ogunduyile (2016). Online and Offline Shopping Motivation of Apparel Consumers in Ibadan Metropolis, Nigeria. *International Journal of Marketing Studies*. 8(1); 150-160. doi:10.5539/ijms.v8n1p150. Published by Canadian Center of Science and Education.
- 11) Wahab, B.A; Abdul-Rasaq Adebawale; Silifat A. Sanni; Olajide P. Sobukola; Obadina Adewale; Olatundun E. Kajihausa; Mojisola Olanike Adegunwa; Lateef O. Sanni and Tomlins Keith (2016). Effect of species, pretreatments, and drying methods on the functional and pasting properties of high-quality yam flour. DOI: 10.1002/fsn3.260. *Food Science and Nutrition*. 4(1) 51-58, Published by Wiley Periodicals, Inc, UK.
- 12) Oyedeji A.B., O. P. Sobukola, F. O. Henshaw, M. O. Adegunwa, L. O. Sanni and K.I. Tomlins (2016). Kinetics of mass transfer during deep fat frying of yellow fleshed cassava root slices. *Heat and Mass Transfer*.52 (5), 1061-1070. DOI 10.1007/s00231-015-1625-0. Published by Springer US.
- 13) Adeyeye S.A., Oyewole O.B., Obadina A.O., Omemu A.M., Adeniran O.E., Oyedele H.A., Olugbile A. and Omoniyi S.A. (2016). Effect of smoking methods on quality and safety of traditional smoked fish from Lagos State, Nigeria. *Journal of Culinary Science and Technology*. Vol. 14, Issue 4, Published by Taylor and Francis.
- 14) Oyinlola L.A., Obadina A.O., Omemu A.M. and Oyewole O.B. (2016) Prevention of microbial hazard on fresh-cut lettuce through adoption of food safety and hygienic practices by lettuce farmers- *Food Science and Nutrition*, DOI 10.1002/fsn3.365. Published by Willey.
- 15) Adeyeye S.A.O., Oyewole O.B., Obadina A.O., Omemu A.M., and Omoniyi S.A. (2016). Quality attributes, polycyclic aromatic hydrocarbon and heavy metal profile of traditional drum smoked Guinean barracuda fish from Lagos State, Nigeria. *Journal of Aquatic Food Products Technology*. Published by Taylor and Francis.
- 16) Adeyeye S.A.O, Oyewole, O.B., Obadina A.O., Omemu A.M. and Oyedele H.A. (2016). Quality characteristics and chemical safety of fried and smoked West Africa Ilisha (*Ilisha africana*) from Ibadan, Oyo State, Nigeria, *Nutrition and Food Science*, Vol. 46 Issue: 2, pp.246 – 258. Published by Emerald Insight, UK.
- 17) Falana, M. B., Bankole, M. O., and Omemu, A. M. (2016). Comparative antimicrobial potentials ofomidun obtained from yellow and white maize varieties on some diarrhea causing microorganisms. *African Journal of Microbiology Research*, 10(27), 1018-1023.
- 18) Falana, M. B., Bankole, M. O., Ojo, D. A., Omemu, A. M. and Bankole, S. O. (2016). Efficacy and safety of leaf, bark and root extract of *vitellaria paradoxa* on diarrhea induced albino rats. *American Journal of Microbiological Research*. 2016; 4(3):73-76. doi: 10.12691/ajmr-4-3-1.
- 19) Bakare H. A. Ogunbowale, O.D., Adegunwa, M. O. and Olusanya, J. O. (2016): Effects of Pre-treatments of Banana (*Musa AAA,Omini*) on the Composition, Rheological Properties and Baking Quality of its Flour and Composite Blends with Wheat Flour. *Food Science and Nutrition*. DOI: 10.1002/fsn3.378 Published by Wiley Periodicals,UK. Available online at: <http://onlinelibrary.wiley.com/doi/10.1002/fsn3.378/citedby> (United Kingdom).
- 20) Bakare, H. A., Adeyefa, E.A. and Dada, T. (2016): Proximate, phytochemical and sensory quality of instant pepper soup mix. *Journal of Culinary Science & Technology* 14 (1): 59–74. Published by Taylor and Francis Group UK. Available online at <http://dx.doi.org/10.1080/15428052.2015.1080642> (United Kingdom).

21) Adegunwa, M.O., Omolaja, N.O. Adebowale, A.A. and Bakare, H.A. (2016):Quality Evaluation of Snacks produced from blends of Unripe Plantain, Bambara groundnut and Tumeric flour. *Journal of Food Processing and Preservation*. DOI: DOI: 10.1111/jfpp.12760. Published by Wiley Periodicals,UK. Available online at : <http://onlinelibrary.wiley.com/doi/10.1111/jfpp.12760/> (United Kingdom)

## 2.6 COLLEGE OF BIOSCIENCES (COLBIOS)

### 2.6.1 Overview of the College

The College of Biosciences (COLBIOS) came into being by the approval from the Senate and the University Governing Council in 2014. The College is made up of four (4) Departments as follows: Departments of Biochemistry, Microbiology, Pure and Applied Botany and Pure and Applied Zoology. The latter two are new Departments derived from the former Department of Biological Sciences.



**Prof. D. A. Agboola**  
**Dean, COLBIOS**

### 2.6.2 Activities/Projects

The Departments of Pure and Applied Botany and Pure and Applied Zoology were involved in several activities and projects within and outside the University during the period under review.

### 2.6.3 Distribution of COLBIOS Academic Staff Publication in 2016

DEPARTMENT	LOCAL		INTERNATIONAL	
	Journal	Conference	Journal	Conference
BIO	82	3	10	18
MCB	19	4	8	13
<b>TOTAL</b>	<b>101</b>	<b>7</b>	<b>18</b>	<b>31</b>

## 2.6.4 DEPARTMENT OF BIOCHEMISTRY

### 2.6.4.1 AWARDS AND GRANTS

- Professor O. Ademuyiwa received Society of Toxicology (SOT) Travel Award utilized at Department of Environmental Toxicology, Texas Technical University Lubbock Texas. September, 2016.
- Dr. A. J. Akamo received the Association of Common Wealth Early Career Travel Grant (1,530 Great Britain Pounds) utilized at Public Health Conference, Kuching, Malaysia, July 2016.



- Mr. D. O. Babayemi received Staff Development TETFUND Grant to be utilized at the Department of Environmental Toxicology, Texas Technical University Lubbock Texas.
- Mrs. O. E. Adeyi received Staff Development TETFUND Grant to be utilized at the Department of Environmental Toxicology, Texas Technical University Lubbock Texas.
- Students of Biochemistry received Merit Award presented by Department of Pure and Applied Botany in recognition of their excellent performance at the Pure and Applied Botany Feed Day 2016 Interdepartmental Debate
- Dr. (Mrs.) O. A. Dosumu attended 1<sup>st</sup> International Conference on Renewable, Conventional Power and Green Technology, October 31 – November 2, 2016 Georgia, USA.
- Dr. (Mrs.) R. N. Ugbaja attended Society of Toxicology's 55th Annual Meeting, Louisiana, New Orleans. 13th –17th March, 2016.
- Dr. (Mrs.) R. N. Ugbaja attended 52<sup>nd</sup> European Congress of the European Societies of Toxicology (Eurotox 2016), Seville, Spain. 4th – 7th September, 2016.

#### 2.6.4.2 Publications

1. Afolabi, O. K., Adeleke, G. E. & Ugbaja, R. N. (2016). Crocin alleviates 5-fluorouracil-induced hepatotoxicity through the abrogation of oxidative stress in male wistar rats. *Asian Pacific Journal of Health Sciences* 3(2): 58-68. [www.apjhs.com](http://www.apjhs.com)
2. Somade, O. T., Ugbaja, R. N., Adeyi, O. E. & Ogunberu, D. M. (2016). Thyroid and reproductive hormones disruption as well as kallikrein-3 level in dimethyl nitrosamine-induced toxicity: Effects of ascorbate treatment in male wistar rats. *Biochimie Open* 3: 40 – 46. Published by Elsevier, Europe. <http://www.journals.elsevier.com/biochimie-open>.
3. Ighodalo, O. M., Akinloye, O. A., Ugbaja, R. N. & Omotainse, S. O. (2016). Bioassay-guided fractionation and identification of bioactive constituents from *Sapium ellipticum* (hochst) pax leaf extract. *Animal Research International* 13(2): xxxx –xxxx.. Department of Zoology and Environmental Biology, University of Nigeria, Nsukka, Nigeria.
4. Ighodalo, O. M., Akinloye, O. A., Ugbaja, R. N., Omotainse, S. O. & Faokunla, O. (2016). FT-IR analysis of *Sapium ellipticum* (Hochst) pax ethanolic leaf extract and its inhibitory effects on pancreatic  $\alpha$ -amylase and intestinal  $\alpha$ -glucosidase activities *in vitro*. *Egyptian Journal of Basic and Applied Sciences* 3: 343-349. Published by Elsevier, Europe. <https://ees.journals.elsevier.com/ejbas>.
5. Akinloye D. I., Osatuyi O. A., Musibau O. G., Yusuf A. A. and S. Adewuyi. (2016) *Invitro* antioxidant activities, elemental analysis and bioactive constituents of *Acalypha wilkesiana* Muell arg and *Acalypha wilkesiana* Java white leaf extracts. *Journal of Chemical Society of Nigeria*. 41(2): 150-157.

6. Arowosegbe A. O., Ojo, D. A., Dedekede I. O. F, Shittu O. B and Akinloye O. A. (2016) Diagnostic value of procalcitonin in neonatal sepsis. Nigerian Journal of Paediatrics, 43(1), 15-19.
7. Metibemu, D. S., Saliu J. A., Metibemu, A. O., Oluwadahunsi, O. J., Oboh, G. O., Omotuyi, I. O and Akinloye O. A (2016). Molecular docking studies of Isorhamnetin from *Corchorus olitorius* with target alpha-amylase related to type-2 diabetes. Journal of Chemical and Pharmaceutical Research, 8(4), 1262 - 1266.

## 2.6.5 DEPARTMENT OF PURE AND APPLIED BOTANY

The department was created from the defunct Department of Biological sciences after the split in December, 2014. This came with the appointment of the pioneer Acting Head of Department in person of Dr. Iyabode Kehinde.

### 2.6.5.1 Publications

The Academic staff members of the department have many articles published in reputable journals. Below are published journals:

1. Kadiri, M., Ojewumi, A.W. Agboola, D. A. and Adekunle, M. F. (2015). Ethnobotanical survey of plants used in the management of diabetes mellitus in Abeokuta, Nigeria. Journal of Drug Delivery & Therapeutics. 5 (3):13-23
2. Kadiri, M., Ojewumi, A.W. and Bada, I.O. (2015). Ethnotherapeutic evaluation and anti-nutrient content of common plants used for management of kidney and liver disorders in Odeda communities, Ogun State, Nigeria. Journal of Drug Delivery & Therapeutics. 5(3):24-32
3. Kadiri, M., Ojewumi A.W. and Onatade, T. N. (2015). Indigenous uses and phytochemical contents of plants used in the treatment of menstrual disorders and after- child birth problems in Abeokuta South Local Government area of Ogun State, Nigeria. Journal of Drug Delivery & Therapeutics. 5(3):33-42
4. Kadiri, M, Ojewumi, A.W and Olawale, S. O (2015). Minerals, vitamins and chlorophyll contents of fruits, stems and leaves of tomato and garden egg PAK. J. FOOD SCI., 25(3):150-154
5. Ojewumi, A. W., Kadiri, M. and Aworokun, S. O. (2016). Responses of Agronomic Parameters of Tomato Seedlings to pH Level and Shade. Journal of Basic and Applied Research International Vol 4 (7) 173-175 2016

6. Kadiri, M., Ojewumi, A. W. and Amosun V. E. (2016). Responses of *Basella urbra* to foliar applications of growth promoters. *Journal of Basic and Applied Research International* 19(2): 99-104.
7. Ojewumi, A. W., Kadiri, M. and Alalade, A. A. (2016). Nutritional and phytochemical contents of three species of pepper of Odeda Communities, Abeokuta, Nigeria. *Journal of Basic and Applied Research International*. 19(1): 77–82
8. Ojewumi, A. W., Kadiri, M. and Alalade, A. A. (2016). Sales, consumption and therapeutic usage of peppers commonly traded at Odeda market, Abeokuta, Ogun State, Nigeria. *Journal of Basic and Applied Research International* 19(2): 83–90.
9. Akinlabi, A.A., Kehinde, I.A. and Afolabi, C.G. (2015). Report of *Sclerotiniasclerotiorum* as the causal organism of the leaf spot and stem blight disease of African yam bean (*Sphenostylisstenocarpa*). *Journal of Applied Biosciences*. 90:8408-8412. Published by Biosciences publication and communication unit, Kenya.
10. Oyelakin, A. S., Ayodele, M. S. and Onianwah, U. V. (2015). Secondary Re-Infestation and Colonization Potential of Some Nigerian Weeds. (Scientific & Academic Publishing) *International Journal of Modern Botany*. 5(1): 1-8. p-ISSN: 2166-5206 e-ISSN: 2166-5214 2015; doi:10.5923/j.ijmb.20150501.01. Online copy available at <http://article.sapub.org/10.5923.j.ijmb.20150501.01.html>
11. Fawibe, O. O., Ogunyale, O.G., Oyelakin, A. S. and Ayodele, M. S. (2015). A Study of Foliage Morphological Descriptions Accommodating Continuity in Previously Delimitation of Types in Tropical Plants. (Science Publishing Group) *Journal of Plant Sciences*. 3(3): 111-116. ISSN: 2331-0723. Doi: 10.11648/j.jpss.20150303.11. Online copy available at <http://www.sciencepublishinggroup.com/j/jpps>
12. Idehen, E.O., Oyelakin, S. A., Onikola, A.O. and Adedapo, V.O. (2016). Numerical and RAPD Analysis of Eight Cowpea Genotypes from Nigeria. *Nigerian. J. Biotech*. 31: 59 –65. ISSN: 0189 1731. DOI: <http://dx.doi.org/10.4314/njb.v31i1.8> , In print. Available online at <http://www.ajol.info/index.php/njb/index>
13. Erinoso, S.M., Fawibe, O. O., Oyelakin, A. S., Ajiboye, A. A. and Agboola, D. A. (2016). Herbal Recipes Used for the Traditional Management of Infantile Dermatitis in Odeda, Southwestern, Nigeria. *Afr. J. Tradit Complement Altern Med*. 13(3): 33-43. <http://dx.doi.org/10.4314/ajtcam.v3i3.5>, In print.
14. Oyelakin, A. S., Fawibe, O. O., Durosaro, S. O. & Adeyanju, D. E. (2016). In Silico Analysis of Ribulose 1, 5 biphosphate (rbcl), Maturase K (matK) and Granule bound starch synthase (GBSS I or waxy) Genes of Four Genera in the Family Solanaceae. Paper presented at the 24<sup>th</sup> Annual Conference of Botanical Society of Nigeria, held at the University of Ibadan, Oyo State, Nigeria. 14-18 August, 2016.

### 2.6.5.2 Book Published

Ajiboye, A.A., Fawibe, O.O. and Agboola, D.A. (2016). Tropical Forest Tree Seeds: Germination, Seedling Growth and Economic Importance. In: Advances in Biological Sciences. Artsmostfare Prints, Ibadan, Nigeria. Pg: 269-294

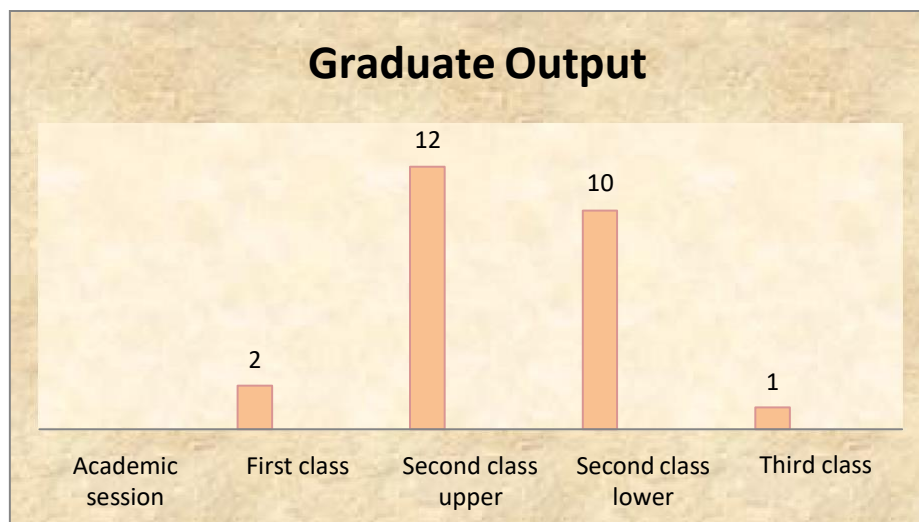
### 2.6.5.3 Conferences and workshop

Many staff members had opportunities to attend trainings and conferences. Included in the list below are some trainings and conferences attended

- ❖ Prof. (Mrs.) I. A. Kehinde, International Workshop on Capacity Building (Netherland) 2016.
- ❖ Modern Methods of Teaching and Learning in Higher Education held at Federal University of Agriculture Abeokuta (Centre for Innovation and Strategy in Learning and Teaching). 25<sup>th</sup> – 26<sup>th</sup> January, 2016.
- ❖ A Three-day Symposium on African Yam Bean organized by the International Institute of Tropical Agriculture (IITA), Ibadan, Oyo State, Nigeria. 17-19 October, 2016.
- ❖ A Two-day Capacity building workshop for Academic Staff on Modern methods of Teaching and Learning in Higher Education organized by the Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. 25-26 January, 2016.

### 2.6.5.4 Graduates

The department graduated a total of Twenty-five (25) students at various honours level in the 2015/2016 Academic session; producing 2 (two) first class graduates.



## 2.6.6 DEPARTMENT OF PURE AND APPLIED ZOOLOGY

### 2.6.6.1 Activities/Projects/Research Grants in 2015/2016

The Department of Pure and Applied Zoology was involved in several activities and projects within and outside the university. This included hosting and attending conferences, workshop, and technical consultancy to public and private institutions, industries.

S/N	Activity/Project	Internal/External and Date	Investigator(s)
1	Assessment of the burden of soiltransmitted helminthiasis after five years of mass drug administration for Onchocerciasis and Lymphatic filariasis in Kebbi State, Nigeria Funded by Sightsavers Kaduna, Nigeria – November 2015	Outside the university	Prof U. F. Ekpo
3	Participation in COUNTDOWN Review Meeting (Liverpool School of Tropical Medicine) in Accra April 17, 2016 – Supported by SightSavers Nigeria	Outside the University	Prof U.F. Ekpo
2	Appointed as a Consultant/Member National Onchocerciasis Elimination Committee by Federal Ministry of Health, Abuja May 2016	Outside the University	Prof U. F. Ekpo
3	Epidemiological and Entomological assessment of the elimination of onchocerciasis in (Kaduna, Kebbi, Plateau, Nasarawa, Zamfara) States – September 2016	Outside the University	Prof U. F. Ekpo
4	Appointed as a member Ogun State Advisory Committee on Neglected Tropical Diseases – November 2016.	Outside the University	Prof S. O. Sam-Wobo Prof U.F. Ekpo
5	Hosting of 40 <sup>th</sup> Annual Conference and Annual General Meeting of Parasitology and Public Health Society of Nigeria- September 2016.	Within the University	(Alternate Chairman) Prof S. O. Sam-Wobo
6	Attendance at 54 <sup>th</sup> conference of British Society for Parasitology, Imperial College, London – April 2016	Outside the University	Prof U.F. Ekpo – Paper presentation

7	Attendance at 65 <sup>th</sup> Annual Conference of American Society for Tropical Medicine and Hygiene – Atlanta, USA November 2016	Outside the University	Prof U.F. Ekpo – Paper presentation
8	Attendance at Coalition for Neglected Tropical Diseases Atlanta, USA, November 2016	Outside the University	Prof U.F. Ekpo – Paper presentation
9	<b>WHO Technical Consultant to Liberia</b> on the development of Liberia Master Plan for Neglected Tropical Diseases 2016 – 2020	Outside the University Nov 2015 – June 2016	Prof S. O. Sam-Wobo
10	<b>WHO Safety and Efficacy studies on drug treatment</b> of Praziquantel and Albendazole on School Children in Four Local Government Areas, Ogun State, Nigeria Ref No: HQNTD1612053/6.1/58803/513	Outside the University (Feb – May 2016) <u>Value: US\$22,600</u>	Prof S. O. Sam-Wobo
11	<b>PATH, Washington USA Biplex Studies on Ov16/Wb123</b> studies of the use of biplex as diagnostic tool for <i>Onchocerca volvulus</i> and <i>Wuchereria bancrofti</i> in Ogun State, Nigeria	Outside the University (Sept 2016 – June 2017) <u>Value: US\$31,240</u>	Prof S. O. Sam-Wobo
12	<b>2<sup>nd</sup> China-Africa</b> meeting on the elimination of schistosomiasis and training on malacology, sponsored by WHO/AFRO held at Hilton Hotel, Yaoundé, Cameroun.	Outside the University October - Nov, 2016	Prof S. O. Sam-Wobo
13	<b>Chairman,</b> Ogun State Advisory/Steering Committee on Neglected Tropical Diseases	Outside the University November 2016 – date	Prof S. O. Sam-Wobo
14	Capacity building workshop on building academic leadership for higher education in the 21st century. Organized by CILST, FUNAAB, June, 2016.	Within the University. June, 2016.	Dr O. A Oke
15	A 2-day step down capacity building training for Departmental SIWES and FPY coordinators and College representatives. Organized by SIWES, FUNNAB 23rd - 24th March, 2016.	Within the University. 23rd – 24th March, 2016.	Dr O. A Oke

18	Attendance 46th Annual Conference of Entomological Society of Nigeria held between October, 2015 at the University of Lagos, Nigeria.	Outside the University	Dr O. A. Oke – paper presentation
19	Attendance at 7 <sup>th</sup> Society for Toxicology and Chemistry World Congress. SETAC North America 37 <sup>th</sup> Annual Meeting, Orlando, Florida, USA., Fostering Environmental Science for an Ever-Changing World- November 2016	Outside the University	Dr Dedeke, G.A. – Paper presentation
20.	Participation in a Workshop on “Strengthening Capacity for CITES Implementation through Master’s Thesis Research”. USAID-funded West Africa Biodiversity Climate Change Program (WA BICC), in collaboration with the US Fish and Wildlife Service (USFWS), the International Union for Conservation of Nature (IUCN) and the ECOWAS Commission, AccraGhana – August 2016	Outside the University	Dr Dedeke, G.A.
21.	Participation in Pre-Conference Short Course on Using the Open Standards for the Practice of Conservation to Plan Effective Conservation Projects, Strengthen Grant Writing, and Communicate with Stakeholders, 3 <sup>rd</sup> North American Congress for Conservation Biology Organized by the Society for Conservation Biology, North America, Madison, Wisconsin – July 2016	Outside the University	Dr Dedeke, G.A.
22.	Attendance at 3 <sup>rd</sup> North American Congress for Conservation Biology organized by Society for Conservation Biology, Madison, Wisconsin, USA – July 2016	Outside the University	Dr Dedeke, G.A.
23.	Attendance at 7 <sup>th</sup> Society of Environmental Toxicology and Chemistry Africa Conference, Club Mykonos, Langebaan, South Africa. Identifying Knowledge Gaps and Research Priorities in Africa: A Pivot for Sustainable Environmental Development–October 2015	Outside the University	Dr Dedeke, G.A.- paper presentation

### 2.6.6.2 Publications

1. Adegbulu T.Y., Mogaji, H.O., Oluwole, A.S., Adeniran, A.A., Alabi, M.O., and Ekpo, U.F (2015). A Preliminary Survey of Gastrointestinal Parasites of Animals in Federal University of Agriculture Abeokuta Zoological Park, Ogun State, Nigeria. *Journal of Biology, Agriculture and Healthcare*, 5(11): 195203.
2. Olaitan O., Mogaji H., Oluwole A., Adeniran A., Alabi O., Ekpo U.F. (2016) Geohelminth Infections and Nutritional Status of Preschool-Aged Children in a Peri-Urban Settlement of Ogun State. *Scientifica, Italy*.
3. Adekunle, N. O., Sam-Wobo, S. O. Adeleke, M. A., Ekpo, U. F., Davies, E., Ladokun, A. O., Egbeobauwaye, E., and Surakat, O. A. (2016). Prevalence and distribution of *Wuchereria bancrofti* In Ose Local Government Area, Ondo State, Nigeria. *Nigerian Journal of Parasitology*, 37 (1): 96-100.
4. Fagbenro, M.T., Mogaji, H.O., Oluwole, A.S., Adeniran, A.A., Alabi, O.M., Abe, E.M. and Ekpo, U.F. (2016). Prevalence of Parasites found on Vegetables sold in Abeokuta, Southwestern Nigeria and Perception of Retailers and Consumers on Contamination. *Journal of Clinical Microbiology and Case Reports*. 2(1):1-5
5. H. O. Mogaji, D. O. Adeaga, Q. A. Yusuff, M. E. Johnson and U. F. Ekpo (2016). Preliminary Evaluation of UNICEF's Assisted Water, Sanitation and Hygiene (WASH) Programme Using Interview Guides and Spot Checks in Ogun State, Nigeria. *Annual Research & Review in Biology*. 9(2): 1-7
6. H. O. Mogaji, A.A. Adeniran, M.T. Fagbenro, D.B. Olabinke, E.M. Abe and U. F. Ekpo (2016). Prevalence of Human Taeniasis in Odeda area of Ogun State. *International Journal of Tropical Disease and Research*. 17(4): 1-8
7. Oluwole, A.S., Adeniran, A.A., Mogaji, H.O., Shittu, E.O., Alabi, O.M., Odoemene, S and Ekpo, U.F. (2016). Survey of Gastrointestinal Parasites among Nomadic Cattle Herds in Eruwa, Oyo State, Southwestern Nigeria. *Annual Research & Review in Biology* 10(6): 1-7
8. E. M. Abe, L. J. Ajah, S. O. Ayuba, H. Mogaji and U. F. Ekpo (2016). Geohelminths Contamination of Fruits and Vegetables Sold in Lafia Markets. *Annual Research & Review in Biology*. 11(2): 1-8.
9. Shittu O. B., Obiakor I. E., Ojo D. A., Sam-Wobo S. O. (2015). Impact of antiretroviral prophylaxis adherence on mothers' health and Prevention-of Mother-to-Child-Transmission (PMTCT) of HIV/AIDS among seropositive pregnant women attending HIV treatment centre in Abeokuta, Nigeria. *International Journal of Public Health Research*, 3(1): 17-24.



10. Ajayi J. B., Sam-Wobo, S. O., and Agbeyangi AO (2015). Prevalence of Urinary Schistosomiasis in Part of Ogun State, Nigeria. *Journal of Natural Sciences Research* vol. 5(5): 62-68
11. Adeleke, M.A., Sam-Wobo, S.O., Oluwole, A.S., Garza-Hernandez, J.A., Reyes-Villanueva, F., Rodriguez-Perez, M.A. (2015). Twenty-three years after the first record of *Aedes albopictus* in Nigeria: its current distribution and potential epidemiological implications. *African Entomology* 23(2): 348-355.
12. Babalola, A. S., Idowu, O. A., Sam-Wobo, S. O., and Fabusoro, E. (2015). Risk factors associated with occurrence of placental malaria in a population of parturients in Abeokuta, Ogun State, Nigeria. *Malaria World Journal*, 6, No. 8
13. Abimbola, W. A., Agbolade, O. M., Sam-Wobo, S. H., and Akindele, S. T. (2015). Morphotaxonomic Assessment of *Simulium damnosum* and onchocerciasis in hypoendemic areas, Ijebu-North Government, Southwest Nigeria. *IOSR Journal of Pharmacy and Biological Sciences*, 10(4): 60-62.
14. Abimbola, W. A., Akindele, S. T., Agbolade, O. M., and Sam-Wobo, S. H. (2015). Morphotaxonomic Phytoscreening of different plants for their repellent activities against the bite of *Simulium damnosum*. *International Journal of Current Research in Biosciences and Plant Biology*, 2(8): 38-42.
15. Abimbola, W. A., Akindele, S. T., Agbolade, O. M., and Sam-Wobo, S. H. (2015). Morphotaxonomic Malaria and the use of insecticide treated nets by pregnant women in Ijebu-North East Local Government, Southwest Nigeria. *Journal of Chemical, Biological and Physical Sciences*, 5(4): 3997-4001.
16. Surakat, O. A.; Sam-Wobo, S. O.; Ademolu, K. A; Shittu, O; Adeleke, M. A.; Abimbola, W. A; Adekunle, N. O., and Mafiana C. F. (2016) Cytospecies composition of *Simulium damnosum* complex (Diptera: Simuliidae) breeding in Oyan River, southwestern Nigeria. *African Entomology* 24(1) (in press).
17. Babalola, A.S; Idowu, O.A., Sam-Wobo, S.O. and Fabusoro, E. (2016). Comparative Effectiveness of Malaria Preventive measures on pregnancy outcome in Abeokuta, Ogun State, Nigeria. *Nigerian Journal of Parasitology*, 37 (1): 1-6.
18. Surakat, O. A., Sam-Wobo, S. O., Ademolu, K., Bankole, S.O., Adeleke, M. A., Adekunle N.O., Awoyale, A.K., Egbeobauwaye, E., Akinsanya, A., Kuforiji, A., and Aremu, S. (2016). Implications of human migration on onchocerciasis prevalence in Ogun State, Southwestern Nigeria. *Nigerian Journal of Parasitology*, 37 (1): 78-82.
19. Sam-Wobo, S.O., Uyigue, J., Surakat, O. A.; Adekunle, O.N and Mogaji, H.O. (2016) Babesiosis and other Haemoparasitic disease in a Cattle Slaughtering Abattoir in Abeokuta, Nigeria. *International Journal of Tropical Disease & Health*, 18 (2): 1-5

20. Sam-Wobo, S. O., Otun, I. O., Adeyemi, E. E., Surakat, O. A., and Adekunle, N. O (2016). Morphotaxonomy and distribution of indoor mosquitoes in private residential houses inhabited by University Students, Abeokuta, Nigeria. *Nigerian Journal of Pure and Applied Sciences (Accepted)*
21. Popoola, A.O., Osipitan, A. A., Afolabi, C.G., Oke, O.A (2015). Biological control of larger grain borer, *Prostephanus truncates* (Horn) (Coleoptera: Bostrichidae) with entomopathogenic fungi – *Beauveria bassana* (Balsamo) vaillemin (Hypocreales: Cordycipitaceae). *International Journal of Entomology and Nematology 2(1): 2 – 8*.
22. Oke, O.A., Adeoti, K.A., and Afolabi, O.O. (2016). Toxicity of Hexanolic Extract of *Cymbopogon citratus* Oil and Powder in the control of *Callosobrunchus maculatus* on stored cowpea. *Nigeria Journal of Post Harvest Research. (Accepted)*
23. Afolabi, O.O., Oke, O.A., Ademolu, K.O., Ogunbayo, C.D., and Oyinloye N.A. 2016. Evaluation of the effectiveness of peels of Orange; Lime; Tangerine and Grape in the control of pest of stored cowpea. *Nigeria Journal of Post Harvest Research. (Accepted)*
24. Oke, O.A., Raji, A., and Afolabi, O.O. 2016. Effect of storage methods on infestation status of *Sitophilus zeamais* and *Prostephanus truncates*) in maize. *Nigeria Journal of Post Harvest Research. (Accepted)*
25. Idowu, A. B; Ademolu K.O., and Bamidele, J.A. (2015). Heavy metals in tissues of 6th instar nymphs and adult variegated grasshopper (*Zonocerus variegatus* L) (Orthoptera: Pygomorphidae) collected from different locations in Abeokuta, Nigeria. *Nigeria Journal Entomology 31:123-128*.
26. Ademolu, K.O; Idowu, A.B; Olabode, O.A; Olanloye, O; Adelabu, A.B and Atayese, O. (2015). Effect of sterilized cassava leaves (*Manihot esculenta*) on growth and nutritional value of adult variegated grasshopper, *Zonocerus variegatus* (L). *Biological and Environmental Sciences Journal for the Tropics (BEST) 12(3):117-121*.
27. Dedeke, G.A; Owagboriaye, F.O; Adebambo, A.O. and Ademolu, K.O. (2016). Earthworm metallothionein production as biomarker of heavy metal pollution in abattoir soil. *Applied Soil Ecology 104:42-47*.
28. Bamidele, J.A; Idowu, A.B; Ademolu, K.O. and Bankole, S.O. (2016). Diversity, abundance and tissue mineral composition of indigenous earthworm species of sawmills of Abeokuta, South Western, Nigeria. *Munis Entomology and Zoology 11(1):63-67*.
29. Surakat, O.A; Sam-Wobo, S.O; Ademolu, K.O; Shittu, O; Adeleke, M.A; Abimbola, W. A., Adekunle, N.O. and Mafiana, C.F. (2016). Cytospecies composition of *Simulium damnosum* complex (Diptera: Simuliidae) breeding in Oyan River, Southwestern Nigeria. *African Entomology 24(1): (Accepted)*.

30. Ademolu, K.O; Ojo, V.O; Bamidele, J.A; Adelabu, A.B and Idowu, A.B. (2016). Feeding pattern and gut enzymes activities of Giant African Land Snails (*Archachatina marginata*) during growth phases. *Archivos de Zoootenia (Accepted)*.
31. Surakat, O.A; Sam-Wobo, S.O; Ademolu, K; Bankole, S.O; Adeleke, M.A; Adekunle, N.O; Awoyale, A.K, Egbeobaunwaye, E; Akinsanya, A; Kuforiji, A and Aremu, S. (2016). Implications of human migration on onchocerciasis prevalence in Ogun State, South-western Nigeria. *Nigerian Journal of Parasitology 37(1): 78-80*.
32. Owagboriaye, F; Dedeke, G.A; Ademolu, K.O. (2016). Glutathionione-Stransferase production in earthworm (Annelida: Eudrilidae) as a tool for heavy metal pollution assessment in abattoir soil. *Revista de Biologia Tropical. 64 (2): 779-789*.
33. Esue, S.E; Ademolu, K.O; Jayeola, O.A; Olanloye, A.O and Idowu, A.B. (2016). Impact of soil substrate replacement regime on foot muscle carbohydrases activities and gut microbial load of giant African land snail (*Archachatina marginata*). *Journal of Molluscan Research. 2: 61-66*.
34. Ademolu, K.O.; Olaniyi, P; Ebenso, I. and Idowu, A. B. (2016). Morphometrics and mineral composition of shell whorls in three species of giant African land snails from Abeokuta, Nigeria. *Folia Malacologica 24(2):81-84*.
35. Ademolu, K.O; Fantola, F.O; Bamidele, J.A; Dedeke, G.A. and Idowu, A.B. (2016). Formation and composition of epiphragm in three giant African land snails (*Archachatina marginata*, *Achatina fulica* and *Achatina achatina*). *Ruthenica 26 (3&4): 165-169*
36. Ademolu, K.O. and Oyinloye, N.A. (2016). Composition, enzymes analysis and retraction time of columellar muscles of giant African land snails (*Archachatina marginata*) in response to external stimuli. *Nigerian Journal of Animal Science 18 (2):329-335*.
37. Odedara, O.O; Ademolu, K.O. and Ayo-John, E.I. (2016). Prevalence of rice yellow mottle virus (RYMV) on rice plants grown in selected farms in Ogun state: Preliminary results. *Nigerian Journal of Biotechnology. 31: 96-102*.
38. Abdul, W.O; Adekoya, E.O; Ademolu, K.O; Omoniyi, I.T, Odulate, D.O; Akindokun, T.E. and Olajide A.E. (2016). The effect of environmental parameters on zooplankton assemblages in tropical coastal estuary, southwest, Nigeria. *Egyptian Journal of Aquatic Research. 42:281-287*.
39. Ugbaja, R.N., Owoeye, F.D., Akinloye, O.A. and Dedeke, G.A. (2015): An Evaluation of *Sorghum bicolor* (Linn) Moench Leaf Sheath Extract in High Fat Diet-Induced Obese *Rats* *Ife Journal of Science 17(3):667-682*
40. Owagboriaye, F.O., Dedeke, G.A., Ademolu, K.O. and Adebambo, O.A. (2015). Bioaccumulation of heavy metals in earthworms collected from abattoir soils as a measure of pollution. *The Zoologist. 13:36-42*

41. Owagboriaye, F.O., Dedeke, G.A. and Ademolu, K.O. (2015) Glutathione-S-Transferase Productions in Earthworm (Annelida; Eudrilidae) as tool for Heavy Metal Pollution Assessment in Abattoir Soil, *International Journal of Tropical Biology and Conservation* 64(2): 779-789
42. Dedeke, G.A., Owagboriaye, F.O., Ademolu, K.O. and Adebambo, O.A. Earthworm Metallothionein Production as Biomarker of Heavy Metal Pollution in Abattoir soil, *Applied Soil Ecology*. 104: 42-47.
43. Owagboriaye, F.O., Dedeke, G.A., Aladesida, A.A., Bamidele, J.A. and Olooto, W.E. Assessment of the Effect of Gasoline Fume on Stress Hormones, Antioxidant status and Lipid peroxidation in albino rat. *Journal of King Saud University-Science (Accepted)*.
44. Owagboriaye, F.O., Dedeke, G.A., Aladesida, A.A., Bamidele, J.A. and Olooto, W.E. Assessment of the Effect of Gasoline Fume on Stress Hormones, Antioxidant status and Lipid peroxidation in albino rat. *Journal of King Saud University-Science (Accepted)*.
45. Lawal, O.A., Osipitan, A.A. and **Aladesida, A.A.** (2015). Assessment of Domesticated and Feral Honeybee Colonies for Infestation by *Varroa destructor* (Acari: Varroidae) in Ogun State, SW Nigeria. *Nigerian Journal of Plant Protection*, 29: 66-72. Published by The Nigerian Society for Plant Protection.

### 2.6.7 Students' Statistics

S/ N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	<b>BCH</b>	33	42	75	38	51	89	38	37	75	44	66	110	0	0	0	0	0	0	153	196	349
2	<b>MCB</b>	35	46	81	40	63	103	35	59	94	43	73	116	0	0	0	0	0	0	153	241	394
3	<b>PAB</b>	18	27	45	23	22	45	12	35	47	25	22	47	0	0	0	0	0	0	78	106	184
4	<b>PAZ</b>	15	28	43	19	22	41	26	25	51	37	38	75	0	0	0	0	0	0	97	113	210
	<b>Sub-Total</b>	101	143	244	120	158	278	111	156	267	149	199	348	0	0	0	0	0	0	481	656	1,137

## 2.6.8 Statistics of Promoted Staff in the College of Biosciences

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	COLBIOS							
1	BCH	0	0	0	0	3	0	0
2	PAB	1	0	0	0	0	0	0
3	PAZ	1	2	0	0	0	0	0
4	MCB	2	2	0	0	0	0	0
	SUB TOTAL	4	4	0	0	3	0	0

## 2.6.9 Publications, Grants, Seminars and Conferences

S/N	COLLEGE /DEPT	SEM/CONFER.	RESEARCH		
			NO OF PUB	GRANTS	HONOURS
	COLBIOS				
1	BIOCHEM	21	7	8	0
2	PAB	4	14	0	0
3	PAZ	23	45		
4	MICRO				

## 2.6.10 Staff Disposition

S/N	COLLEGE/ DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
	COLBIOS						
1	BCH	8	4	3	2	0	2
2	MCB	4	8	1	2	0	2
3	PAB	5	1	0	2	1	1
4	PAZ	7	1	1	1	0	1
	SUBTOTAL	24	14	5	7	1	6

## 2.7 COLLEGE OF PHYSICAL SCIENCES (COLPHYS)

### 2.7.1 Overview of the College

The College of Physical Sciences (COLPHYS) comprises five Departments each running four years Bachelor of Science Degree programmes, all of which are fully accredited by the National Universities Commission (N.U.C.). The Departments are: Chemistry, Computer Science, Mathematics, Physics and Statistics. The College produce skilled manpower by providing undergraduate and graduate students training, and contribute to sustainable development locally and globally through cutting edge research.



**Prof. Mustapha**  
*Dean, COLPHYS*

### 2.7.2 Publications

The following are some of the web-based research publications in 2016

1. Ojesanmi O.A. and Salawu S.A. (2016), Information Retrieval System for National Health Insurance Scheme Hospitals in Nigeria, *Journal of the Nigerian Association of Mathematical Physics*, Vol. 33 (January), pp. 265-270, Published by Nigerian Association of Mathematical Physics, Nigeria.
2. Ojesanmi O.A. and Ojesanmi A.A. (2016), An Improved Channel Allocation Scheme for Congestion Control in Wireless Network, *FUNAI Journal of Science & Technology*, 2(1), Published by Federal University, Ndufu-Alike, Ikwo, Ebonyi State, Nigeria. Available at [www.fjst.org](http://www.fjst.org)
3. Ojesanmi O.A. and Lawal O.A (2016), Congestion Control in Mobile Network by Prioritizing Handoff Calls, *Journal of the Nigerian Association of Mathematical Physics*, Vol. 34 (March), pp. 263-266.
4. Ojesanmi O.A, Ugege P. and Folorunso O. (2016), An Adaptive Channel Allocation Scheme for Handoff Prioritization and Acceptable QoS for New Calls in Mobile Networks, *Journal of the Nigerian Association of Mathematical Physics*, Vol. 35 (May), pp. 431-438.
5. Ojesanmi O.A. and Lawal O.A. (2016), Design of Solar Pulse for Charging Mobile Phone, *Journal of the Nigerian Association of Mathematical Physics*, Vol. 37 (September), pp. 275-278.
6. Ibharalu F.T, Hamed M., Dawodu G.A., Ojesanmi O.A, and Oloruntoba S.A (2016), An Enhanced Multifactor Authentication Scheme for Dynamic Online Voting System, *Journal of the Nigerian Association of Mathematical Physics*, Vol. 38 (November) pp. 443-450.

7. A. K. Akinlabi, R. K Quadri, I. A. S. Bankole and O. K. Koleoso. (2015). The use of coconut shell as additive in natural rubber compounding. *Journal of the Chemical Society of Nigeria*. 40(1), p. 56 – 64. Published by the Chemical Society of Nigeria. <http://02af665.netsolhost.com/jcsn22011.html>.
8. Eugene Yaya and Akinola Akinlabi. (2015). Kinetics and thermodynamics of Pb (II) and Zn (II) ions uptake from aqueous phase by tea (*Camellia Sinensis*) seed shell. *IOSR-Journal of Applied Chemistry*. 8(4) II. p. 20 - 26. [www.iosrjournals.org](http://www.iosrjournals.org) .
9. Samuel Babajide, Olayinka Oderinde, Akinola Akinlabi and Ajani Egbemuyiwa. (2015). Exhaust hydrocarbon emission concentration level in Abeokuta metropolis, Ogun State, Nigeria: A case study of commercial motorcycles (Okada). *International Journal of Sciences: Basic and Applied Research*. 23(1) p. 167 – 180. [www.gssit.org/index.php?journal=journalofbasicandapplied](http://www.gssit.org/index.php?journal=journalofbasicandapplied)
10. Olurin O. T., J. A. Olowofela, O. D. Akinyemi O. D. B. S. Badmus, O. A. Idowu and S. A. Ganiyu (2016): Enhancement and Basement Depth Estimation From Airborne Magnetic Data. *The African Review of Physics*. 10: 0038, 303 – 313
11. Olurin O. T., J. A. Olowofela, O. D. Akinyemi, B. S. Badmus, O.A. Idowu, and S. A. Ganiyu, (2016): Matched Filtering Analysis of Airborne Magnetic Data Over Idogo Area, Nigeria. *The African Review of Physics* 10: 0047, 383 – 393.
12. S. A.Ganiyu, B. S. Badmus, M. A. Oladunjoye, A. P. Aizebeokhia, V. C. Ozebo, O. A. Idowu and O.T. Olurin (2016): Assessment of Groundwater Contamination Around Active Dumpsite in Ibadan Southwestern Nigeria Using Integrated Electrical Resistivity and Hydrochemical Methods. *Environmental Earth Sciences*, 75, 643 -662
13. Awoyemi, M. O., O. S. Hammed, S. C. Falade, A. B. Arogundade, O. D. Ajama and O. T. Olurin (2017) Geophysical investigation of the possible extension of Ifewara fault zone beyond Ilesa area, southwestern Nigeria. *Arabian Journal of Geosciences* 10: 10 – 24
14. Olurin O. T., S. A. Ganiyu, O. S. Hammed and T. J Aluko (2017) Interpretation of aeromagnetic data over Abeokuta and its environs, Southwest Nigeria, using spectral analysis (Fourier transform technique). *RMZ – M and G*, 64: 199 -212.
15. Okeyode, I.C., J.A. Rabi, O.O. Alatise, V. Makinde, F.G. Akinboro, D. Al-Azmi and A.O. Mustapha (2016) Area monitoring of ambient dose rates in parts of South-Western Nigeria using a GPS-Integrated radiation survey meter. *Radiat. Prot. Dosim.* Doi:10.1093/rpd/nw336.

### 2.7.3 Linkages and Partnerships (On-going collaboration)

- Federated Scheme of the Abdus Salam International Centre for Theoretical Physics (ICTP).

### 2.7.4 Research Grants, Fellowships, Scholarships Awards

- Dr. (Mrs.) Caroline A. Akinremi of the Department of Chemistry received the 2016 Schlumberger Foundation Inc. Faculty for the future award for women Fellowship.
- Mrs. Oluwafolake Esther Ojo of the Department of Computer Science received the Tertiary Education Trust Fund (TETFUND) Academic Staff Training and Development (AST&D) Grant to carry out her Ph.D. Benchwork at the Department of Security, Networks and Multimedia, Institut Mines-Telecom, Cesson-Sevigne, France.
- Dr. (Mrs.) Saidat Adebukola Onashoga of the Department of Computer Science received 2016 Nigerian Women in Information Technology “Woman of the Year” Award during the National Information Technology Merit Awards in Lagos, Nigeria.
- Professor J.A. Oguntuase of the Department of Mathematics became fellow of the Nigerian Mathematical Society (NMS).
- Professor O.J. Adeniran of the Department of Mathematics became the Associate Editor of the Journal of Nigerian Mathematical Society.
- Professor E.O. Asiribo of the Department of Statistics received the Nigeria Statistical Association (NSA) honourary award.
- Professor J.A. Olowofela of the Department of Physics was appointed Oyo State Commissioner for Education, Science and Technology

### 2.7.5 Students' Enrolment Statistics

S / N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL			
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
	COLPHYS																						
1	CHM	39	39	78	53	30	83	61	38	99	45	40	85	0	0	0	0	0	0	198	147	345	
2	CSC	76	8	84	71	22	93	51	24	75	72	29	101	0	0	0	0	0	0	270	83	353	
3	MTS	68	9	77	62	14	76	62	17	79	81	11	92	0	0	0	0	0	0	273	51	324	
4	PHS	78	8	86	75	12	87	63	8	71	90	3	93	0	0	0	0	0	0	306	31	337	
5	STS	55	12	67	48	19	67	64	12	76	91	13	104	0	0	0	0	0	0	258	56	314	
	Sub-Total	316	76	392	309	97	406	301	99	400	379	96	475	0	0	0	0	0	0	1,305	368	1,673	



### 2.7.6 Statistics of Promoted Staff in the College of Physical Sciences

S/N	COLLEGE / DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD . ASS.
	<b>COLPHYS</b>							
1	CHM	2	1	0	0	0	0	0
2	CSC	2	1	0	0	0	0	0
3	MTS	1	1	1	0	0	0	0
4	PHS	0	0	1	0	0	0	0
5	STS	0	0	0	0	0	0	0
	<b>SUB TOTAL</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### 2.7.7

S/N	COLLEGE/ DEPT	SEMINAR/CONFERENCE	RESEARCH		
			NO OF PUB	GRANTS	HONOURS
	<b>COLPHYS /DEPT.</b>				
1	CSC	0	5	2	0
2	PHY	0	9	1	0
3	CHM	0	3	1	0
4	MTS	0	0	2	0
5	STS	0	0	1	0

### 2.7.8 Staff Disposition

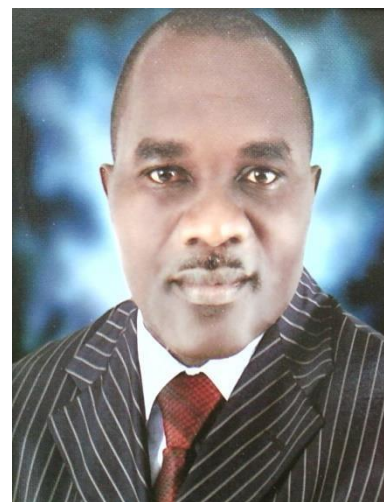
S/N	COLLEGE/ DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
	<b>COLPHYS</b>						
1	CHM	15	5	4	2	0	2
2	CSC	8	5	1	0	0	1
3	MTS	17	0	0	1	1	1
4	PHS	12	2	5	1	1	1
5	STS	6	4	0	0	1	1
	<b>SUBTOTAL</b>	<b>58</b>	<b>16</b>	<b>10</b>	<b>4</b>	<b>3</b>	<b>6</b>

## 2.8 COLLEGE OF PLANT SCIENCE AND CROP PRODUCTION

### 2.8.1 Overview of the College

The College of Plant Science and Crop Production (COLPLANT) was established on 1<sup>st</sup> October, 1989 and since then, the College has grown in terms of Departments, staff and students. The five academic Departments in the College at present are:

- i Department of Crop Protection
- ii Department of Horticulture
- iii Department of Plant Breeding and Seed Technology
- iv Department of Plant Physiology and Crop Production
- v Department of Soil Science and Land Management



*Prof. M.O. Atayese*  
*Dean, COLPLANT*

The operations of the University farms which provide the necessary logistics for crop farming aspects in the B. Agric. curriculum are under the supervision of the College. Seed and grain production as well as provision of materials and support for staff crop production are parts of the objectives of the University farm.

### 2.8.2 Grants

During the year under review, the College received grants. The grants are as follows:

- i. African Cassava Agronomy Initiative: Research Fellowship and Scholarships from International Institute of Tropical Agriculture, Ibadan, Nigeria to FUNAAB. This grants provided sponsorship platform for Postgraduate students within and outside the College. The project is headed by Prof. F. K. Salako.
- ii. Mrs. Olabisi Omolara Onasanya, an Assistant Lecturer in the Department of Soil Science and Land Management, and a beneficiary of the ACAI grant is being sponsored for PhD in Swiss Federal Institute of Technology, Zurich, Switzerland.
- iii. Dr. M. A. Busari was awarded Commonwealth Academic Fellowship tenable at Lancer Environmental Centre, Lancaster University, United Kingdom from November 1, 2016 to August 31, 2017.
- iv. ECOWAS-RAAF-PASA NAO Project Incentivizing Adoption of climate – SMART practices in Cereal Production in Nigeria. This grant was won by the team of Dr. B. A. Senjobi of the Department of Soil Science and Land Management. It was headed by Prof. A. M. Shittu of COLAMRUD

### 2.8.3 DEPARTMENT OF CROP PROTECTION

There are five academic disciplines in the Department, namely, Entomology, Virology, Mycopathology, Phytonematology, and Phytobacteriology. Courses in these different areas are taught in the B. Agric. programme for Undergraduate students while the disciplines are major areas of specialization in the Postgraduate programme in the Department.

Till date, the Department had been under the academic leadership of Heads of Departments; Dr. G. O. Olatunde (2002 – 2005); Dr. O. A. Enikuomehin (2005 – 2007); Prof. A. Y. A. Adeoti (2007-2010); Dr. O. R. Pitan (2010-2012); Dr. A. R. Popoola (2012 - 2016); Prof. J. J. Atungwu (August 1, 2016 – November 30, 2016) and Dr. (Mrs.) E. I. Ayo-John (December 1, 2016 till date).

#### 2.8.3.1 Publications

1. Popoola, R. R., Ganiyu, S. A., Babalola, O. A., Ayo-John, E. I., Fajinmi, A. A., Kehinde, I. A. and Adegboye, T. H. (2015). Impact of soil amendments and weather factors on bacterial wilt and yield of two tomato cultivars in Abeokuta, Nigeria. *South African Journal of Plant and Soil*. 31 (4): 195-201. Published by Taylor and Francis, U. K. <http://dx.doi.org/10.1080/02571862.2014.966339>
2. Ayo-John, E. I., O. O. Odedara, E. V. Loko, F. D. Aworinde, A. C. Tella, I. G. Ogundare, A. M. Kelani, J. O. Hassan, J. O. Oladokun, and O. B. Afolayan (2016). Distribution of Virus Symptoms and Viruses Infecting Field-Grown Cucurbit Crops Under Natural Tropical Conditions Within a Humid Rainforest Transition Agro-Ecology in Nigeria. *Annals of Tropical Research* 38(1):10-18(2016).
3. Odedara, O. O., Ademolu, K. O. and Ayo-John, E. I. (2016). Prevalence of Rice Yellow Mottle Virus (RYMV) on Rice Plants grown in selected Farms in Ogun State: Preliminary Results. *Nig. J. Biotech.* Vol 31 96-102.
4. Okunola, O. S., Osipitan, A. A., Atungwu, J. J. and Idowu, A. B. (2015). Control of flea beetle, *Podagrica* spp. (Coleoptera: Chrysomelidae) with the use of entomopathogenic nematode, *Heterorhabditis bacteriophora*. *Nigerian Journal of Plant Protection* 29: 44-55
5. Atungwu, J. J., and Aruna, W. O. (2015). Phytochemical analysis and prospects of some indigenous plants as bionematicides: implications for organic management of *Meloidogyne incognita*. *International Journal of Nematology* 25(2): 200 – 207.
6. Olabiyi, T. I., Akande, V. O., Atungwu, J. J., Fayinminnu, O. O. and Gbadamosi, A. R. (2015). Assessment of bio-nematicides on the growth and yield of cowpea planted on nematode infested soil. PP. 187-191` In: Rahmann, G., Olabiyi, T. I. and Olowe, V. I. O. (Eds.) Scientific Track Proceedings of the 3<sup>rd</sup> African Organic Conference, Achieving Social and Economic Development through Ecological and Organic Agricultural Alternatives. October 5 – 9, 2015.
7. Olabiyi, T. I., Akande, V. O., Atungwu, J. J., Fayinminnu, O. O. and Gbadamosi, A. R. (2015). Assessment of bio-nematicides on the growth and yield of cowpea planted on nematode infested soil. Pp. 187-191 In: Rahmann, G., Olabiyi, T. I. and Olowe, V. I. O. (Eds.) Scientific

- Track Proceedings of the 3<sup>rd</sup> African Organic Conference. Achieving Social and Economic Development through Ecological and Organic Agricultural Alternatives. October 5 – 9, 2015
8. Renco, M., Kovacik, P. and Atungwu, J. J. (2016). Reduction of a potato cyst nematode by organic soil amendments at different inoculum densities. *Journal of Organic Agriculture and Environment* 4 (1): 98 – 109.
  9. Atungwu, J. J. and Soneye, O. A. (2016). First report of plant-parasitic nematodes associated with organic lawn grasses in Nigeria. *International Journal of Nematology* 26 (1&2): 57 – 62.
  10. Tijjani, I. and Atungwu, J. J. (2016). Susceptibility of some cowpea breeding lines to *Meloidogyne* spp. In Sudan Savannah agro-ecology: A threat to organic crop production system. *Journal of Organic Agriculture and Environment* 4(2): 38 – 46.
  11. Obi, T. E., Henshaw, O. F., Atanda, O. O. and Atungwu, J. J. (2016). Assessment of residual organochlorine pesticides associated with pulp, flour and noodles produced from unripe plantain from fields undergoing conversion. *Journal of Organic Agriculture and Environment* 4 (2):64 – 71.
  12. Otusanya, M. O. , Enikuomihin, O. A., Popoola, A. R., Adetunji, M. T., Kehinde, O. B., Okeleye, K., Latunde-Dada, O. and Amusa, O. (2016). Effect of calcium fertilization on the susceptibility of *Dioscorea* species to the yam storage pathogens, *Aspergillus niger* van Tiegh, and *Botryodiplodia theobromae* Pat. *Journal of Plant Physiology and Pathology* 4:3, Doi: 10.4172/2329-955X.1000155.
  13. Otusanya, M. O., Enikuomihin, O. A., Popoola, A. R., Adetunji, M. T., Kehinde, O. B., Okeleye, K., Latunde-Dada, O. and Amusa, O. Effect of foliar application of calcium nitrate on the susceptibility of *Dioscorea* species to yam anthracnose caused by *Colletotrichum gloeosporioides* Penz (Penz & Sacc.). *Journal of Plant Physiology and Pathology*. (Letter of acceptance dated August 25, 2016).
  14. Otusanya, M. O., Enikuomihin, O. A., Popoola, A. R., Adetunji, M. T., Kehinde, O. B., Okeleye, K., Latunde-Dada, O.. Evaluation of the virulence of three isolates of *A. niger* van Tiegh. On *Dioscorea* species. *Journal of Plant Physiology and Pathology*. Published by SciTechnol., International Publisher of Science, Technology and Medicine; <http://www.scitecnol.com/>, (Letter of Acceptance dated August 25, 2016).

### 2.8.3.2 Grants and Awards

- ❖ Prof. A. R. Popoola, Principal Investigator, TETFUND Research Intervention Grant, 2015.
- ❖ Prof. J. J. Atungwu won a Travel grants to attend workshop on developing curriculum for neglected and underutilized species, Kenya. BIOVERSITY, 2015.

## 2.8.4 DEPARTMENT OF PLANT BREEDING AND SEED TECHNOLOGY

The Department of Plant Breeding and Seed Technology is only of such in Nigeria. Its establishment is in acknowledgement of the pivotal position of plant breeding and seed production in a developing economy. The Department has two (2) Academic Units namely:

- i. Plant Breeding and Genetics Unit.
- ii. Seed Technology and Biotechnology Unit.

The Plant Breeding and Seed Technology Department has 14 Academic and 4 Non-Teaching Staff. A member of staff is on Sabbatical Leave at LASU and another staff on Leave of Absence at IITA.

### 2.8.4.1 Publications

1. Sesay S., D.Ojo, Ariyo O.J, S.Meseka (2016). Genetic variability and genetic advance studies in top-cross and three-way cross maize (*Zea mays* L.)hybrids. *Maydica* 60.
2. Muthada, M.A., Ariyo, O.J., Alghamdi, S.S and Adebisi, M.A. (2016) Improvement of grain yield and vegetative characters of temperate maize (*Zea mays* L.) *Maydica* 60:3M.22
3. Olufelo J., Adebisi M.A., Ajala M O., Kehinde T.O and Raheem S., 2016. Seed Digital Imaging Analysis of Morphometric Characters in Pigeon Pea (*Cajanus cajan*) Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
4. Adebisi M.A., Ajala M O., Ajani O.O., Kehinde T.O., Boladale, S.B. and Yusuf A. 2016. Effect of Epicotyl Scarification methods in Enhancement of Seed Germination, Seedling Vigour and Growth Characteristics in *Cola nitida* (Vent)(Schott and Endicher) Species. Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
5. Adebisi M.A., Alegiledoye A.O., Ajala M O., Ilori F.I and Esuruoso O.A. 2016. Assessment of Seedling Emergence Attributes of African Yam Bean (*Sphenostylis stenocarpa* Hochst.Ex A Rich) Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
6. Alegiledoye A O., Adebisi M.A., Ajala M O., Atayese M.A. and Ilori F.I. 2016. Assessment of Variability in Seed Physiological Quality of African Yam Bean (*Sphenostylis stenocarpa* Hochst.Ex A Rich) using Multivariate Techniques Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
7. Ilori F.I., Adebisi M A., Ajala M O and Makinde E.A.B. 2016. Assessment of Potential Seedling Emergence and Growth Attributes in Bambara Groundnut (*Vigna subterranean*

- L.VERDC) Genotypes Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
8. Uwala O.E., Adebisi M.A., Shokalu, Oluwafemi P.s., Salihu, Bello E H. 2016. Evaluation of Agronomic Characteristics of Early and Medium Maturing Varieties of Soybean (*Glycine max*) Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
  9. Ilori F I., Ajala M O ., Adebisi M A., Ayo-Vaughan M A and Alegiledoye A O. 2016. Evaluation and Bambara groundnut (*Vigna subterranean* L. VERDC) for Seed Yield and Related Traits. Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
  10. Daniel, I. O., Atinsola, K. O., Ajala, M. O. and Popoola, A. R. (2017). Phenotyping a tomato breeding population by manual field evaluation and digital imaging analysis. *International Journal of Plant Breeding and Genetics*. 11:19-24. DOI:10.3923/ijpbg.2017.19.24
  11. Olumide O B., Akintobi D C A., Makinde E A. 2016. Effects of Seed Treatments and Storage Time on Yield and Yield-related Parameters of Five Cowpea Varieties Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
  12. Akintobi D C A., Okojie A. and Porbeni J B O. 2016. Packaging Materials, Seed Treatments and Storage Periods Effects on Seed Viability of Three Soybean (*Glycine max* L. Merri.) Genotypes Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
  13. Kehinde T O, Adebisi M A., Alegiledoye A O., Ajani O O and Shofuyi K A. 2016. Evaluation of Seed nut Size as Index of Selection for Supervisor Seed Quality Attributes in Two Biotypes of Cashew (*Anacardium occidentale*) Plant Breeding and Seed Science 72:75-86
  14. Fayeun L S., Ojo D K., Adebisi M A, Hammed L and Omikunle A O. 2016. identification of Facultative Apomixis in Fluted Pumpkin (*Telfaria occidentalis* HOOK F.) through Emasculation Method. *American Journal of Experimental Agriculture* 10(1):1-10
  15. Adebisi M A., Alegiledoye A O., Ajala M O., Ilori F I and Esuruoso O A. 2016. Assessment of Seedling Emergence Attributes of African Yam Beans (*Sphenostylis stenocarpa* Hochst.Ex A Rich) Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
  16. Adebisi M A., Oluwafemi P S and Uwala O E. 2016. Variability and Relationship od Seedling Emergence and Growth Parameters with Seed Germination and Seedling Vigour in Early and Medium-maturing Tropical Soybean (*Glycine max*) *Genotypes* Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A

17. Adebisi M A., Okunowo O A and Alegiledoye A O. 2016. Seed yield and Morphometric Characters of African Yam Beans (*Sphenostylis stenocarpa*) Genotypes Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
18. Adebisi M.A., Ajala M O., Ajani O.O., Kehinde T.O., Boladale, S.B. and Yusuf A. 2016. Effect of Epicotyl Scarification methods in Enhancement of Seed Germination, Seedling Vigour and Growth Characteristics in *Cola nitida* (Vent)(Schott and Endlicher) Species. Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
19. Olumide O.B., Adebisi M A., Abdul-Rafiu A.M and Olufelo J. 2016. Assessment of Seedling Vigour characteristics of Cayenne (*Capsicum frutescens*) Pepper Genotypes Grown in Two Cropping Years. Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
20. Alegiledoye A O., Adebisi M.A., Ajala M O., Atayese M.A. and Ilori F.I. 2016. Assessment of Variability in Seed Physiological Quality of African Yam Bean (*Sphenostylis stenocarpa* Hochst.Ex A Rich) using Multivariate Techniques Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
21. Ilori F.I., Adebisi M A., Ajala M O and Makinde E.A.B. 2016. Assessment of Potential Seedling Emergence and Growth Attributes in Bambara Groundnut (*Vigna subterranean* L. VERDC) Genotypes Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
22. Okunowo O A., Adebisi M. A. and Ojo BA. 2016. Variability and Relationships Among Seed Physiological Parameters in African Yam Beans (*Sphenostylis stenocarpa*) Genotypes Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
23. Oluwafemi P S., Adebisi M. A., Uwala O.E and Olumide O.B. 2016. Varietal Differences in Seed Germination and Seedling Vigour Characteristics in Early and Medium-maturing Tropical Soybeans (*Glycine max*) Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
24. Esuruoso O A., Adebisi M. A., Ilori F I and Ojo D K. 2016. Effects of Genotype and Cropping Year on Seedling Emergence and Seedling growth Characters in Eggplant. Proceedings of the 2<sup>nd</sup> Conference of Association of seed Scientists' on Nigeria (ASSN) eds. Ariyo O.J., Akintobi D.C., Adebisi, M A and Makinde E.A
25. Idehen E. O., Oyelakin, A. S., Onikola, A. O. and Adedapo, V. A. 2016. Numerical and RAPD Analysis of Eight Cowpea Genotypes from Nigeria. *Nigerian Journal of Biotechnology* Vol. 31:59 – 65

26. J.B.O. Porbeni, B. M. Olaolorun, O. Sansa and E. O. Idehen 2016. Digital Imaging of pollen characteristics and estimating yield related components of some mutant cowpea [*Vigna unguiculata* (L.) Walpers] lines. *Nigerian Journal of Genetics* Vol. 31
27. Daniel, I. O., Akanro, J. O., Soretire A. A., Afolabi O. T. and Alimi A. (2016). Organic seed treatments for optimizing germination and seedling establishment of *Acacia nilotica* in South-Western Nigeria. *Journal of Organic Agriculture and Environment* 4(2): 16-24.
28. Adeboye, K. A., O. W. Adabale, J. A. Adetumbi, M. A. Ayo-Vaughn and Daniel, I. O. (2015). SSR analysis of genetic changes during artificial ageing of rice seeds stored under gene bank management. *Plant Breeding and Seed Science*. 71: 37-45. DOI: 10.1515/plass-2015-0020.
29. Daniel, I. O., O. W. Adabale, K. A. Adeboye, E. S. Aladele, O. T. Oduoye, J. A. Adetumbi and A. Boerner (2015). Evaluation of genetic integrity of ageing tomato seeds by microsatellite markers. *Nigerian Journal of Genetics*. 32: (In press). Elsevier International. <http://dx.doi.org/10.1016>.

### **2.8.5 DEPARTMENT OF HORTICULTURE**

The Department was established in 1992 to train both undergraduate and postgraduate in the production, improvement, storage, handling and marketing of fruits, vegetable and ornamental in addition to landscape gardening. The establishment of the department is in the recognition of the significant role horticultural crops play in agricultural and economy growth in Nigeria. Horticulture is a wide field, running parallel in agriculture.

#### **2.8.5.1 Grants and Awards**

- ✓ Aiyelaagbe - Goerg Foster Fellowship of the Alexander von Humboldt, Germany 2000 to date
- ✓ Odeyemi - Kader Award in Postharvest Training (Postharvest Education Foundation, USA) 2015

#### **2.8.5.2 Publications**

1. Salau, A.W., Olasantan, F.O. Bodunde, J.G. and Makinde, E.A (2015). Soil Temperature and Moisture Contents Changes with Growth and Yield of Cassava/ Vegetable Intercrops. *Archives of Agronomy and Soil Science*. 61 (4): 447–460. Published by Taylor and Francis, Group. United Kingdom.
2. Shobo, B.A., Bodunde, J.G., Makinde, E.A and Olowe, V.I.O (2015) Growth, Yield and Productivity of Determinate and Indeterminate Tomato Varieties as Influenced by Crop Spacing in Abeokuta, South Western Nigeria. *International Journal of Science, Commerce and Humanities*. 3 (7): 68-78. Published by Post Academic Publications, South Shields, United Kingdom.



3. Aiyelaagbe, I.O.O., Harris, P.J.C. and Olowe, V.I.O. (2015). Skills gaps in organic agriculture and SWOT analysis in Higher Educational Institutions (HEIs) in Anglophone West Africa. *Organic Agriculture*, 6 (2), 109-118 DOI 10.1007/s13165-015-0119-1
4. Olubode, O.O. Odeyemi, O.M. and I.O.O. Aiyelaagbe (2016) Influence of environmental factors and production practices on the growth and productivity of pawpaw (*Carica papaya* L.) in south western Nigeria – A review. *Fruits*, 2016, vol. 71 (6): 341-361 <http://dx.doi.org/10.1051/fruits/2016027>
5. Makinde, E.A. (2015). Effects of Fertilizer Source on Growth and Cumulative Yield of Amaranthus. 21 (2): 167-176. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
6. Salau, A.W., Olasantan, F.O. Bodunde, J.G. and Makinde, E.A (2015). Soil Temperature and Moisture Contents Changes with Growth and Yield of Cassava/ Vegetable Intercrops. *Archives of Agronomy and Soil Science*. 61 (4): 447–460. Published by Taylor and Francis, Group. United Kingdom.
7. Salau, A.W. and Makinde, E.A (2015). Planting Density and Variety on Okra Growth, Yield and Yield Duration. 21 (4): 363-372. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
8. Odeyemi, O.M., Olubode, O.O. and Makinde, E.A. (2015). Effects of Organic and Conventional Production Systems on Nutrient Uptake and Residual Soil Nutrient Status of Pawpaw (*Carica papaya*) Orchard. *Journal of Organic Agriculture and Environment*. 3:46–55. Published by Organic Agriculture Project in Tertiary Institutions in Nigeria, Nigeria. (OAPTIN).
9. Makinde, E.A., A. W. Salau and O.T. Ayoola (2015). Regrowth Ability and Nutrient Uptake of Amaranthus as Affected by Fertilizer Level. 21 (5): 429-440. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
10. Shobo, B.A., Bodunde, J.G., Makinde, E.A and Olowe, V.I.O (2015) Growth, Yield and Productivity of Determinate and Indeterminate Tomato Varieties as Influenced by Crop Spacing in Abeokuta, South Western Nigeria. *International Journal of Science, Commerce and Humanities*. 3 (7): 68-78. Published by Post Academic Publications, South Shields, United Kingdom.
11. Salau, A.W. and Makinde, E.A. (2016). Okra Leaf Growth, Fruit Set and Harvest Duration as Affected by Variety and Sowing Date. 22 (1): 101-111. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
12. Makinde, E.A (2016). Amaranthus Plant Nutrients and Soil Nutrient Dynamics with Cassava Peel Compost. 22(2): 141-152. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom. Makinde, E.A., Salau, A.W. and Odeyemi, O.M. (2016). Evaluation of poultry manure application rate and plant population on growth, dry matter partitioning and nutrient uptake of Cock's comb (*Celosia argentea*. L). 13: 1-17. *International Journal of Organic Agriculture Research and Development (IJOARD)*. Published by Association of Organic Agriculture Practitioners in Nigeria (NOAN), Nigeria.
13. Makinde, E.A., Salau, A.W. and Odeyemi, O.M. (2016). Evaluation of poultry manure application rate and plant population on growth, dry matter partitioning and nutrient uptake of Cock's comb (*Celosia argentea*. L). 13: 1-17. *International Journal of Organic Agriculture*

- Research and Development (IJOARD)*. Published by Association of Organic Agriculture Practitioners in Nigeria (NOAN), Nigeria.
14. Salau, A.W., Makinde, E.A and O.O. Olubode (2016). Bed Height and Intra-row Spacing on Pepper Growth and Fruit Yield. 22 (6):555-563. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
  15. Odeyemi, O.M., Olubode, O.O., and Makinde, E.A. (2015) Effects of organic and conventional production systems on nutrient uptake and residual soil nutrient status of pawpaw (*Carica papaya* l.) Orchard. *Journal of Organic Agriculture and Environment (JOAEN)*. Vol. 3 (1): 46-55. Published by Organic Agriculture Project in Tertiary Institutions (OAPTIN).
  16. Adeyemi, O.R, Smith, M.A.K, Ojeniyi, S.O. and O.O. Olubode (2015) Weed Species Composition And Productivity of Okra (*Abelmoschus esculentus* (L.) Moench) As Affected By Time of Weed Removal. *Nigeria Journal of Plant Protection* 29: 22-35. Published by Nigeria Society of Plant Protection
  17. Olubode, O.O., Salau, A.W., and Adeyemi, O.R (2016) Growth, yield and productivity of Hybrid Tea Rose (*Rosa x Hybrida*) in response to seasonal variation and manure application rates. *Journal of Organic Agriculture and Environment (JOAEN)* Vol. 4 (1): 67-78. Published by Organic Agriculture Project in Tertiary Institutions (OAPTIN).
  18. Salau, A.W., Makinde, E.A and O.O. Olubode (2016). Bed Height and Intra-row Spacing on Pepper Growth and Fruit Yield. 22 (6):555-563. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
  19. Olubode, O.O. Odeyemi, O.M. and I.O.O. Aiyelaagbe (2016) Influence of environmental factors and production practices on the growth and productivity of pawpaw (*Carica papaya* L.) in south western Nigeria – A review. *Fruits*, 2016, Vol. 71 (6): 341-361 <http://dx.doi.org/10.1051/fruits/2016027>
  20. Salau, A.W., Olanitan, F.O. Bodunde, J.G. and Makinde, E.A (2015). Soil Temperature and Moisture Contents Changes with Growth and Yield of Cassava / Vegetable Intercrops. *Archives of Agronomy and Soil Science*. 61 (4): 447–460. Published by Taylor and Francis, Group. United Kingdom.
  21. Salau, A.W. and Makinde, E.A (2015). Planting Density and Variety on Okra Growth, Yield and Yield Duration. 21 (4): 363-372. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
  22. Makinde, E.A., A. W. Salau and O.T. Ayoola (2015). Regrowth Ability and Nutrient Uptake of Amaranthus as Affected by Fertilizer Level. 21 (5): 429-440. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
  23. Salau, A, W. and Makinde, E.A. (2016). Okra Leaf Growth, Fruit Set and Harvest Duration as Affected by Variety and Sowing Date. 22 (1): 101-111. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
  24. Makinde, E.A., Salau, A.W. and Odeyemi, O.M. (2016). Evaluation of poultry manure application rate and plant population on growth, dry matter partitioning and nutrient uptake of Cock's comb (*Celosia argentea*. L). 13: 1-17.. *International Journal of Organic Agriculture Research and Development (IJOARD)*. Published by Association of Organic Agriculture Practitioners in Nigeria (NOAN), Nigeria.

25. Salau, A.W., Makinde, E.A. and O.O. Olubode (2016). Bed Height and Intra-row Spacing on Pepper Growth and Fruit Yield. 22 (6): 555-563. *International Journal of Vegetable Science*. Published by Taylor and Francis Group, United Kingdom.
26. Ajiboye, G.A., Jaiyeola, J.O., Olaiya, A.O. and Hamed, L.A. (2015). Fertility Baseline Study of Major Cocoa Growing Soils of Nigeria and Implication for Cocoa Production in Nigeria. *Nigeria journal of Soil Science (NJSS)*, 25: 45 – 57. Published by Soil Science Society of Nigeria.
27. Hamed, L.A., Olaniyan, A.B., Olaiya, A.O., Lawal, B.A. and Lucas, E.O. (2015). Growth, dry matter partitioning and nutrient uptake of Cashew (*Anacardium occidentale* L.) seedlings as affected by nut-size under an extended nursery period. *Journal of Organic Agriculture and Environment*. 3. 65 – 83. Published by Organic Agriculture Project in Tertiary Institutions in Nigeria (OAPTIN), Federal University of Agriculture Abeokuta (FUNAAB).
28. Olosunde, O.M., Adeleke, A.M and Ogundiran, O.B. (2015). Growth response of *Dracaena fragrans* and *Cordyline terminalis* to growing medium. *International Journal of Tropical Agriculture*. 33 (1); 39-44. Published by Serials Publications, India. Available online at [www.Serialspublications.com](http://www.Serialspublications.com).
29. Olosunde, O.M. (2015). Effects of growth medium and sowing depth on seedling emergence and growth of *Polyalthia longifolia* var. *pendula* Sonn. *Nigerian Journal of Ecology* 14: 21-28. Published by Ecological Society of Nigeria. I116-753X.
30. Olosunde, O.M., Olulana, O.J and Aleu, S. (2015), Effects of container opacity and growing medium on growth and appearance of dumb cane (*Dieffenbachia amoena* Schott). *European International Journal of Science and Technology*. Published by Tyne & Wear United Kingdom Available online at [www.eijst.org.uk](http://www.eijst.org.uk). In press
31. Joseph–Adekunle T.T and T.R. Salami (2016) Some Neglected And Under - Utilised Indigenous Vegetables In Osun State Nigeria For Organic Farming Systems *Journal of Organic Agriculture and Environment (JOEAN)* 4: (2) Published by Organic Agriculture Project in Tertiary Institutions in Nigeria (OAPTIN) Society, Federal University of Agriculture, Abeokuta, Nigeria
32. Odeyemi, O.M., Olubode, O.O. and E.A. Makinde. (2015). Nutrient uptake and residual soil nutrient status of pawpaw (*Carica papaya*) orchard in response to organic and conventional production systems. *Journal of Organic Agriculture and Environment (JOAEN)*. Vol 3:46-55 ISSN 2437-2021. Published by Organic Agriculture Project in Tertiary Institutions in Nigeria (OAPTIN), Federal University of Agriculture, Abeokuta, Nigeria.
33. Olubode, O.O. Odeyemi, O.M. and I.O.O. Aiyelaagbe (2016) Influence of environmental factors and production practices on the growth and productivity of pawpaw (*Carica papaya* L.) in south western Nigeria – A review. *Fruits*, 2016, Vol. 71 (6): 341-361 <http://dx.doi.org/10.1051/fruits/2016027>
34. Makinde, E.A., Salau, A.R., O.M. Odeyemi. (2016). Evaluation of poultry manure application rate and plant population on growth, dry matter partitioning and nutrient uptake of Cock’s comb (*Celosia argentea*. L). *International Journal of Organic Agriculture Research and Development*. Vol. 13: 1-17.

## 2.8.6 DEPARTMENT OF PLANT PHYSIOLOGY AND CROP PRODUCTION

The Department of Plant Physiology and Crop Production is one of five (5) Departments in College. It was created out of the former Department of Crop Production and Crop Protection and former Department of Plant Physiology and Crop Ecology through a Senate approved restructuring. There are three (3) academic disciplines in the Department, namely: Crop Physiology, Crop Production and Weed Science. Courses in these different areas are taught in the B.Agric Programme.

### 2.8.6.1 Publications

1. Itabiya, O.V.I.; Adebawale, A.A.; Shittu, T.A., Adigbo, S.O. and Sanni, L.O. 2016. Effect of Ratoon Process on the Engineering Properties of NERICA Rice Varieties. *Quality Assurance and Safety of Crops & Foods* issue 8 (1) 21-31. Published by Wageningen Academic Publishers in co-operation with ICC. DOI: <http://dx.doi.org/10.3920/QAS2014.0449>
2. Fabunmi, T.O., Adigbo, S.O., Odedina, J.N. and Akinsanya, Y. I. 2016. Effects of tuber size, soaking hours and sprouting media on sprouting of tigernut (*Cyperus esculentus* L. var. *sativa*) tubers. *Acta agriculturae Slovenica*, 107 – (2) (In Press). Published by University of Ljubljana, Slovenia. <http://ojs.aas.bf.uni-lj.si/index.php/AAS/issue/archive>
3. Awoyemi, S. O., Afolabi, C. G., Popoola, A.R., Odedina, J. N. and Adigbo, S. O. 2016. Performances of improved cassava (*Manihot esculenta* Crantz) cultivars against root rot disease and yield in cassava-maize intercropping systems under natural infection. *Archives of Phytopathology and Plant Protection*. (in Press). Accepted in July 2016. (Published by Taylor & Francis, UK. Available online: DOI: 10.1080/03235408.2016.1221561
4. Olaiya, A.O; Salami, A.O; Bodunde, J.G; Lawal, O.I; Iluebbey P and Hammed L.A (2016) Field evaluation of yellow cassava varieties as affected by fertilizer types and rates in two agroecologies of Nigeria. *African Journal of Agricultural Science and Technology*. Vol. 4, Issue 2, pp. 5000-5010. February, 2016 <http://www.oceanicjournals.org/ajast> ISSN 2311-5882.
5. Hammed, L.A., Olaniyan, A.B. Olaiya, A.O and Lucas, E.O (2016) Field establishment and early nut yield of Cashew (*Anacardium occidentale*, L) as affected by Nut size and planting method in Rainforest Agroecological zone of Nigeria. *Nigerian Journal of Science*. Published by Science Association of Nigeria. Letter of acceptance dated 6<sup>th</sup> July, 2016
6. Olaiya, A.O (2016) Growth and development of cacao (*Theobroma cacao* L.) seedlings in the nursery as influenced by pod maturity and retaining period after harvesting. *Nigerian Journal of Ecology*. Published by Faculty of Agriculture University of Ibadan.
7. Olaiya A. O., Atayese M. O., Okeleye K. A., Arowolo T. O and Oluwole S. O (2015) Impact of poultry manure on fruit yield and yield components of inland valley okra (*Abelmoschus esculentus* L.) in a forest – Savannah transition ecology of Nigeria *Net Journal of Agricultural Science*. Vol. 3(4), pp. 93-98, October 2015 ISSN: 2315-9766.
8. Olaiya, A.O, Famaye, A.O and E.A. Adeyemi (2015) Effects of spacing and component crop population on seedling establishment in Cocoa/Kola/Citrus intercrop. *International Journal of Current Research in Biosciences and Plant Biology* ISSN: 2349-8080 Volume 2 Number 9 (September-2015) pp. xx-xx [www.ijcrbp.com](http://www.ijcrbp.com)

9. Ajiboye, G.A; Jaiyeoba, J.O; Olaiya, A.O and Hammed, L.A (2015) Fertility baseline study of major Cocoa growing soils of Nigeria and implication for Cocoa production in Nigeria. Published in *Nigerian Journal of Soil Science*, Vol.25 : pp 45-57, 2015. Publisher Soil Science Association of Nigeria.
10. Ajiboye, G.A; Jaiyeoba, J.O; Olaniyan, J.O and Olaiya, A.O. (2015) Characteristics and suitability of the soils of some major Cocoa growing areas of Nigeria: Etung LGA of Cross River State. Published in *AGROSEARCH – A Journal* publication of University of Ilorin.
11. Hammed, L.A ., Olaniyan, A.B. Olaiya, A.O. Lawal, B.A. 2 and Lucas, E.O (2015). Growth, dry matter partitioning and nutrient uptake of cashew (*anacardium occidentale* L.) seedlings as affected by nut-size under an extended nursery period. *Journal of Organic Agriculture and Environment* Vol. 3, pp 65-83. Publisher OAPTIN, FUNAAB
12. Aderibigbe, S.G., Sakariyawo, O.S., Soretire, A.A., Oyekanmi, A.A., Soremi, P.A.S. (2015). Growth and yield responses of open pollinated maize (*Zea mays*) to types and rates of organic fertilisers in rainforest transitory agroecology of Nigeria. *Journal of Agricultural Science and Environment* 15 (2): 85-94. Published by FUNAAB
13. Adebola A. Osipitan, Victoria T. Sangowusi, Omoniyi I. Lawal, and Kehinde O. Popoola (2015). Correlation of Chemical Compositions of Cassava Varieties to Their Resistance to *Prostephanus truncatus* Horn (Coleoptera: *Bostrichidae*). *J. Insect Sci.* 15(13): 2015; DOI: 10.1093 /jisesa/ieu173. Oxford University Press, London.
14. Olaiya, A.O; Salami, A.O; Bodunde, J.G; Lawal, O.I; Iluebbey P and Hammed L.A (2016) Field evaluation of yellow cassava varieties as affected by fertilizer types and rates in two agroecologies of Nigeria. *African Journal of Agricultural Science and Technology*. Vol. 4, Issue 2, pp. 5000-5010. February, 2016 <http://www.oceanicjournals.org/ajast> ISSN 2311-5882.
15. Adeyemi, O. R., Hosu, D , Olorunmaiye, P. M., and Dare, M. O.(2015). Response of Maize (*Zea mays* L.) to different biochar rates and weed control methods. *Nigerian Journal of Ecology*. 14: 1-12. Published by the Ecological Society of Nigeria.
16. Adeyemi, O. R; Olaogun, O; Adigun, J. A and Adejuyigbe, C. O (2015) Weed Specie Composition and Diversity as Influenced by Poultry Manure Rates and Weeding Frequency in Okra. *Journal of Agriculture and Environmental Sciences* 4 (1) : 225-236 Published by American Research Institute for Policy Development.
17. Adeyemi O. R., Smith, M. A. K, Ojeniyi, S.O. and Olubode, O. O. (2015) Weed Species Composition and Productivity of Okra (*Abelmoschus esculentus* (L.) Moench) as Affected by Time of Weed Removal. *Nigerian Journal of Plant Protection*. Published by the Nigerian Society for Plant Protection.
18. J.A.Adigun, O.R. Adeyemi, S. T.O.Lagoke, P.M. Olorunmaiye, O.S. Daramola and A. O. Babatunde (2016). Influence of Inter-Row Spacing and Weed Control Methods in Groundnut (*Arachis hypogae* (L.)). *Journal of Agricultural Science and Environment*. Vol. 16 Number 1 ( Letter of Acceptance dated 15<sup>th</sup> March 2016)
19. Oyedele, O.O. P.M. Olorunmaiye, O.M.O. Odeleye, O.O. Alamu, O.S. Adebayo, K.M. Bamimore, U. Onyegbule, A.A. Olaniyan (2015). Productivity response of spice and vegetable crops in citrus juvenile orchard. *Journal of Biology, Agriculture and Healthcare* Vol 5, No 10. Published by International Institute for Science, Technology and Education (IISTE) Suite 1304, 258, Madison Avenue, New York, NY 10016 United State.

20. Olorunmaiye, P.M., Ajala, O.T., Yaqub, I. & Osunleti, S.O. (2015). Preliminary study of different concentrations of crude cassava water extract on maize (*Zea mays* L.) performance and weed control. *Journal of Organic Agriculture and Environment* Vol. 3, pp 113 – 117. Published by Organic Agriculture in Tertiary Institutions (OAPTIN), Abeokuta, Nigeria.

#### **2.8.6.2 Linkages and Partnerships (On-going Collaborations)**

Sustainable weed Management Technologies For Cassava Systems. International Institute of Tropical Agriculture (IITA).

#### **2.8.6.3 Grants and Awards**

- a. TETFUND Funded Project worth 1.499 million titled “Adoption and performance of rice plants in-between lowland rice-cowpea/vegetable in sawah systems among farmers in Ogun State” 2015/2016.
- b. Competitive West Africa Agricultural Productivity Programme (WAAPP Project): titled “Improving Child Nutrition in Nigeria Using Yellow-Fleshed Cassava/Sorghum Based Complementary Food. It is a World Bank Funded project (Collaboration- 10 million worth)
- c. Facilitation of Crop Research Programme to sign Memorandum of Understanding: (MoU) with International Institute of Tropical Agriculture (IITA) for the establishment of 10 ha of cassava for cutting multiplication worth ₦1 million. Funded by National Cassava Transformation Agenda of the FG of Nigeria.
- d. IFSERAR/FUNAAB Research grant for project titled: Evaluation of Roselle (*Hibiscus sabdariffa* L.) Cultivars as affected by different sources and rates of fertilizers in the Savanna transition ecological zone of Nigeria.

#### **2.8.6.4 Scholarship:**

Prof. P.O. Adetiloye: Fullbright Scholar-in-Residence at Lincoln University, Pennsylvalia, United States of America for the 2016/2017 Academic year.

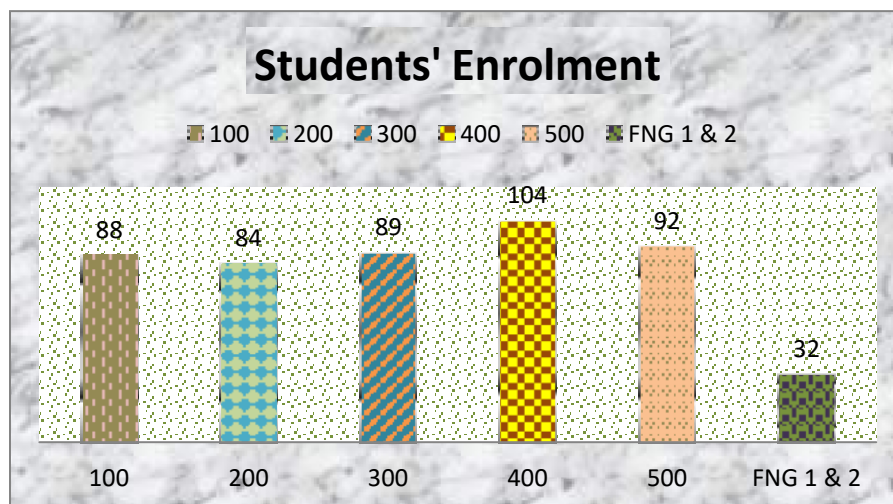
## 2.8.7 DEPARTMENT OF SOIL SCIENCE AND LAND MANAGEMENT

The Department was established as the Department of Soil Science and Agricultural Mechanization, first under the then College of Applied Science and Technology (CAPT). In 1989, the Department was placed under the College of Plant Science and Crop Production (COLPLANT). Thereafter, the University Senate at its 131<sup>st</sup> meeting on April 28, 2004 changed the name of the Department to Department of Soil Science and Land Management. The Department started with six members of academic staff in 1988. In 2004, three staffs of the Department who were teaching the Agricultural Mechanization aspect of the programme were transferred to the newly established Department of Agricultural Engineering; and this informed the need for a review of the curriculum of the program and the change of name.

The academic staffs are specialists in various sub-disciplines of Soil Science, namely, Pedology/ Soil Survey and Classification, Soil Fertility and Plant nutrition, Soil Physics/Soil and Water Conservation, Soil Chemistry, Soil Microbiology and Biochemistry.

### 2.8.7.1 Students' Enrolment

There are four hundred and eighty nine (489) students on roll at the undergraduate level and thirty eight (38) at postgraduate level in the Department during the 2015/2016 academic session.



## 2.8.7.2 Publications

1. Senjobi, B. A, Idehen, R. T., Oduntan, O. O., & Adesodun, J. K. (2016). Characterization and morphogenetic variability of soils under organic based oil palm plantations in South-western Nigeria. *Journal of Organic Agriculture and Environment*, 4: 17-27. Published by Organic Agriculture Project in Tertiary Institutions in Nigeria (OAPTIN).
2. B. E. Udom, B. O. Nuga & J. K. Adesodun (2016). Water-stable aggregates and aggregate-associated organic carbon and nitrogen after three annual applications of poultry manure and spent mushroom wastes. *Applied Soil Ecology* 101: 5-10, DOI: <http://dx.doi.org/10.1016/j.apsoil.2016.01.007>. Published by Elsevier, Netherlands.
3. Bassey Udom & Johnson Kayode Adesodun (2016): Soil penetrating quality in cultivated and forested coastal plain sands of Southern Nigeria. *Archives of Agronomy and Soil Science*, 62:7, 963-971, DOI: 10.1080/03650340.2015.1107677. Published by Taylor & Francis Group. <http://dx.doi.org/10.1080/03650340.2015.1107677>.
4. M.O Adigun and O.A Babalola (2016.) Dynamics of Nitrogen on Soybean field amended with poultry manure. *British Microbiology Research Journal* 16 (6) 1-10
5. M.O Adigun and O.A Babalola (2016) Soil microbial activities in soybean rhizosphere inoculated with Bradyrhizobium and mycorrhizal fungi. *Journal of Agriculture and Ecology Research International*. ScienceDomain 9 (4) 1-12
6. Olalekan Sakariyawo, Mufutau Atayese, Kehinde Okeleye, Abimbola Babalola, Idowu Adegoke, Micheal Dare, Paul Soremi and Sunday Adigbo (2016) Yield and its attributes responses to draught tolerant upland Nerica rice to different treatments in rainforest transitory agroecology. *Acta Agriculturae Slovenica* 109.
7. Shokalu A.O., Adetunji M.T., Bodunde J.G., Akintoye H.A. and Azeez J.O. 2016. Cadmium adsorption as influenced by poultry manure addition in soils of South - Western Nigeria. *Accepted, Archives of Agronomy and Soil Science*, <http://dx.doi.org/10.1080/03650340.2016.1261118>.
8. Caroline Avosuahi Akinremi, Nikechukwu Nike Omosun, Sheriff Adewuyi, Jamiu Oladipupo Azeez and Sanyaolu Nurudeen Olanrewaju (2016) Preparation and characterisation of chitosan-humic acid- zerovalent iron nanocomposite for nitrate reduction in water. *Journal of Applied Chemistry*, Volume 2016, Article ID 1895854, 8 pages. <http://dx.doi.org/10.1155/2016/1895854>, Hindawi Publishing Corporation.
9. Azeez, J.O, Adeleye, O.A. and Oyinlola, R.O (2016). Effect of sulphur and urea on the heavy metals extraction by African wild sunflower (*Tithonia diversifolia*) in an artificially contaminated soil. *Communications in Soil Science and Plant Analysis* 47 (16) : 1940-1949. <http://dx.doi.org/10.1080/00103624.2016.1219363>
10. Busari, M. A., Salako F.K. and Tuniz C. (2016). Stable isotope technique in the evaluation of tillage and fertilizer effects on soil carbon and nitrogen sequestration and water use efficiency. *European Journal of Agronomy*, 73: 98-106. Publisher: Elsevier. [www.elsevier.com/locate/eja](http://www.elsevier.com/locate/eja). DOI: 10.1016/j.eja.2015.11.002
11. Bhatt R., Kukal S.S., Busari M.A. Arora S., and Yadav M. (2016). Sustainability issues on rice-wheat cropping system. *International Soil and Water Conservation Research*, 4: 68-83. Publisher: Elsevier. [www.elsevier.com/locate/iswcr](http://www.elsevier.com/locate/iswcr). DOI:10.1016/j.iswcr.2015.12.001



12. Onasanya O.O., Salako, F.K., Ajiboye G.A. and Busari M.A. (2016). Prediction of saturated hydraulic conductivity using soil texture and organic carbon under different land use types (Accepted for publication). *Nigerian Journal of Soil Science*. <http://ajol.info/index.php/njss>.
13. Olubuse, O. C.; Senjobi, B. A.; Ajiboye, G. A. and Oyedepo, J. A. (2015): Assessment of Soil Chemical Potential of a Dystric Fluvisol as influenced by pedogenic Processes in a GIS Environment, South western Nigeria. *Nigeria Journal of Soil and Tillage Research*. 2: 255-274. Published by International Soil Tillage Research Organization, Nigeria Branch (ISTRO-NG). ISSN 647-9921.

### **2.8.7.3 Grants and Awards**

- ❖ Dr M. A. Busari was awarded Commonwealth Academic Fellowship tenable at Lancaster Environmental Centre, Lancaster University, United Kingdom from November 1, 2016 to August 31, 2017.
- ❖ Mrs O. O. C. Onasanya was awarded PhD Fellowship tenable at ETH Zurich, Switzerland with sponsorship from the Africa Cassava Agronomy Initiative (ACAI) project coordinated by International Institute of Tropical Agriculture (IITA), Ibadan.
- ❖ Africa Cassava Agronomy Initiative (ACAI) funded through International Institute of Tropical Agriculture (IITA), Ibadan with Prof. F. K. Salako as Project Leader.  
Title: Strengthening African Capacity in Soil Geochemistry to inform Agricultural and Health Policies.  
Total value: One Million, One Hundred and Thirty Two Thousand, One Hundred and Sixty Two Pounds (£1,132,162.00).
- ❖ Collaborating Institutions: Professor Jon Lloyd of Imperial College, London (Leader); Dr Azeez Jamiu of Federal University of Agriculture Abeokuta, Nigeria; Dr. Vincent Logah of Kwame Nkrumah University of Science and Technology, Ghana and Dr. Halidou Compaore of Agriculture and Environment Research Institute, Burkina Faso.  
Duration: 2015-2019.
- ❖ ECOWAS-RAAF-PASANAO Project:  
Incentivising Adoption of Climate-SMART Practices in cereal Production in Nigeria.  
Principal Investigator: Prof. A. M. Shittu  
Partner: Dr. B. A. Senjobi  
Duration: One (1) year

## 2.8.8 Students' Statistics

S/N	COLLEGE/DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	CPT	53	14	67	51	19	70	40	46	86	40	53	93	66	59	125	0	0	0	250	191	441
2	HORT	52	18	70	30	23	53	37	48	85	61	17	78	77	54	131	0	0	0	257	160	417
3	PBST	62	20	82	54	19	73	43	43	86	43	49	92	102	16	118	0	0	0	304	147	451
4	PPCP	53	23	76	48	28	76	48	28	76	48	32	80	88	28	116	0	0	0	285	139	424
5	SSLM	82	6	88	67	17	84	51	38	89	82	8	90	107	12	119	0	0	0	389	81	470
	Sub-Total	302	81	383	250	106	356	219	203	422	274	159	433	440	169	609	0	0	0	1,485	718	2,203

## 2.8.9 Statistics of Promoted Staff in the College of Plant Science and Crop Production

S/N	COLLEGE/DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	COLPLANT							
1	CPT	1	1	0	0	0	0	0
2	HRT	0	2	0	0	0	0	0
3	PBST	0	0	0	0	0	0	0
4	PPCP	0	1	1	0	0	0	0
5	SSLM	0	0	1	0	0	0	0
	SUB TOTAL	1	4	2	0	0	0	0

## 2.8.10 Publications, Grants, Seminars and Conferences

S/N	COLL/DEPT	SEMINAR/CONFERENCE	RESEARCH		
			NO OF PUB	GRANTS	HONOURS
	COLPLANT				
1	CPT	0	14	2	0
2	PBST	0	29	0	0
3	HORT	0	34	0	0
4	PPCP	0	20	0	1
5	SSLM	0	13	5	0

## 2.8.11. Staff Disposition

	COLLEGE/DEPARTMENT/UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
VIII	COLPLANT						
1	CPT	8	3	2	1	0	2
2	HRT	9	2	0	1	1	2
3	PBST	11	4	2	0	0	2
4	PPCP	13	2	0	2	0	2
5	SSLM	10	5	0	2	0	2
	SUBTOTAL	51	16	4	6	1	10

## **2.9 COLLEGE OF VETERINARY MEDICINE (COLVET)**

### **2.9.1 Overview of the College**

The general philosophy of the College is to produce skilled manpower that is adequately furnished with comprehensive information required for engaging in economic livestock production, animal health, public health, research and teaching, and to produce veterinarians who will be job creators rather than job seekers.



**Prof. Samuel Olatunbosun OMOTAINSE**  
(DVM, MVSc, PhD, FCVSN)  
**Dean, COLVET**

The objectives of the College are:

- (i) To provide adequate training that will enable recipients facilitate production of wholesome meat, dairy and poultry products and promote public health.
- (ii) To equip trainees with knowledge and skill for teaching, research and public service functions.

### **2.9.2 DEPARTMENT OF VETERINARY PHYSIOLOGY AND PHARMACOLOGY**

#### **2.9.2.1 Publications**

1. Naomi O. Ovwighose, Kehinde O. Soetan, O. O. Arowolo and R.O.A. Arowolo, (2016). A pharmaco-epidemiological survey of the use and misuse of antibiotics in selected clinics and farms in Southern Nigeria. *Trop. Vet.* 34: 1 – 11.
2. Thomas F.C., Aduloju O.S., Okediran B.S., Ajibola E.S., Maduagwu E.N. (2016). Presence of Nitrites, Nitrates, Nitrosamines in the Eggs of Intensively Raised Layers in Abeokuta, Nigeria. *Nigerian Veterinary Journal* published by the NVMA.
3. Thomas, F.C., Mudaliar, M., Tassi, R., McNeilly, T.N., Burchmore, R., Burgess, K., Herzyk, P., Zadoks, R.N., Eckersall, P.D. (2016): Mastitomics, the integrated omics of bovine milk in an experimental model of *Streptococcus uberis* mastitis: 3. Untargeted metabolomics. *Molecular BioSystems*. Royal Society of Chemistry, United Kingdom.
4. Mudaliar, M., Tassi, R., Thomas, F.C., McNeilly, T.N., Weidt, S.K., McLaughlin, M., Wilson, D., Burchmore, R., Herzyk, P., Eckersall, P.D., Zadoks, R.N. (2016): Mastitomics,

- mastitis: 2. Label-free relative quantitative proteomics. *Molecular BioSystems*. Royal Society of Chemistry, United Kingdom.
5. Thomas, F.C., Mullen, W., Tassi, R., Ramírez-Torres, A., Mudaliar, M., McNeilly, T.N., Zadoks, R.N., Burchmore, R., Eckersall, P.D. (2016): Mastitomics, the integrated omics of bovine milk in an experimental model of *Streptococcus uberis* mastitis: 1 High abundance proteins, acute phase proteins and peptidomics. *Molecular BioSystems*. Royal Society of Chemistry, United Kingdom.
  6. Thomas, F.C., Haining, H., Stevenson, M.L., Thompson, H., Ajibola, E.S., Eckersall, P.D. (2016): Immunohistochemical localization of Haptoglobin in the Bovine Mammary Gland. *Alexandria Journal of Veterinary Sciences*, 50(1): 65-69. Faculty of Veterinary Medicine, Alexandria University, Egypt.
  7. Thomas, F.C., Santana, A.M., Waterston, M., Haining, H., Eckersall, P.D (2016): Effect of pre-analytical treatments on bovine milk acute phase proteins. *BMC Veterinary research*. 12: 151. BioMed Central, London, United Kingdom .
  8. Sonibare, A.O, Takeet, M.I., Gasaliyu, K. A, Agbebi, O.T, Sofela, S.O., Thomas F.C. (2016): Morphologic identification and proteomic analysis in adult *Haemonchus contortus* of West African Dwarf Goats by 1DE SDS-PAGE. Accepted in: *Nigerian Journal of Parasitology*
  9. Thomas, F.C., Waterston, M.M., Hastie, P., Haining, H and Eckersall, P.D. (2016): Early Post Parturient Changes in Milk Acute Phase Proteins. Accepted in: *Journal of Dairy Research*.
  10. Schmidt, E., Kjelgaard-Hansen, M., Thomas, F.C., Tvarijonaviciute, A., Ceron, J., Eckersall, D. (2016): Acute phase proteins in dogs naturally infected with the giant kidney worm (*Dioctophyme renale*). *Veterinary Clinical Pathology*.
  11. Ajibola, E.S, Oyewale JO, Oke, B.O (2016): Left ventricular M-mode echocardiographic indices of *Trypanosoma brucei* infected dogs. *Bulgarian Journal of Veterinary Medicine*, 19(4): 274-280
  12. Ajibola, E.S, Oyewale J.O, Oke, B.O (2016): Electrocardiographic and some serum electrolyte changes in acute experimental *Trypanosoma brucei* infection of adult dogs. *Philippine Journal of Veterinary Medicine*, 53(1): 26-33.
  13. Ajibola, E.S., Oyewale J.O., Oke, B.O. (2016): Arterial blood pressure changes in acute *Trypanosoma brucei* infection of dogs. *Bulletin of Animal Health and Production in Africa*, 64(4): 73-79.
  14. Ajibola E.S., Oyewale, J.O (2016): A six lead electrocardiogram of *Trypanosoma brucei* infected dogs. *Alexandria journal of Veterinary science*, 48(2):23-32
  15. Adeleye O. E., Oguntayo O. M., Adeleye A. I., Adetomiwa S. A., Ariyo O. E. (2016)

Androgenic effect of aqueous extract of *Allium cepa* peels on the sperm parameters of Oba Marshall broiler cocks. Book of Abstract of 6<sup>th</sup> African Veterinary Association/53rd Annual Conference of Nigerian Veterinary Medical Association (NVMA), Published by NVMA. 182

16. Bello, S.A., Akintunde O.G., Sonibare A.O. and Otesile E.B. (2016). Effects of sex, age and time of the day on vital parameters of apparently healthy West African dwarf goats in Abeokuta, Nigeria. *Alexandra Journal of Veterinary Medicine* 49 (2): 18-23. Published by faculty of Veterinary Medicine Alexandria University Egypt.

### 2.9.2.2 Linkages & Partnership On-going Collaboration

1. There is an on-going partnership between the laboratory of Prof. Benson T. Akingbemi of the Department of Anatomy, Physiology and Pharmacology, College of Veterinary Medicine, Auburn University, Alabama, USA and Dr. Olukunle J.O. of the Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, FUNAAB, Nigeria. This partnership is a study on environmental endocrine disruptors, currently the ongoing work is on “*COMPARATIVE ASSESSMENT OF THE EFFECTS OF PRENATAL EXPOSURES TO BISPHENOL A (BPA) AND DI (2-ETHYLHEXYL) PHTHALATE ON THE TESTICULAR DEVELOPMENT AND HORMONAL PRODUCTION IN MALE RATS*”
2. Professor R.O.A. Arowolo established collaborations with OAU/IBRA Nairobi, Kenya and Dept. of Livestock and Pest control services, Federal Ministry of Agriculture, Abuja.
3. Dr. L. A. Durotoye is
  - a) In collaboration with Professor Olayemi and Dr. Ajibade, both of the Department of Veterinary Physiology, Biochemistry and Pharmacology, University of Ibadan, studying the antioxidant effect of melatonin and other compounds in rats.
  - b) In collaboration with Professor Bawa, Dr. Ajadi and Mr. Adeusi, estimating the time of ovulation and best time to breed West African Dwarf (WAD) goats.

### 2.9.2.3 Major Research Breakthrough

Dr Funmi Thomas

The identification of potential new biomarkers of bovine mastitis by the use of new (‘omics’) technologies. This research finding details have been published in 3 separate articles in *Molecular Biosystems* (Royal Society of chemistry). This research breakthrough was featured as a news item in the University of Glasgow University news on the 16<sup>th</sup> of July, 2016 ([http://www.gla.ac.uk/news/headline\\_475363\\_en.html](http://www.gla.ac.uk/news/headline_475363_en.html)).

#### **2.9.2.4 Grants and Awards**

Conference attendance grant from the management of Federal University of Agriculture Abeokuta to attend biennial meeting of the International Society for Animal Clinical Pathology (ISACP) at Cape town, South Africa, 4-9<sup>th</sup> April, 2016.

#### **2.9.2.5 Staff Overseas Training**

Dr. (Mrs.) O. T.) Adenubi (Ph.D. programme at University of Pretoria, South Africa).

### **2.9.3 DEPARTMENT OF VETERINARY PATHOLOGY**

#### **2.9.3.1 Publications**

1. Omotainse, O. S., Akpavie, S., Ajayi, O.L., Otesile, E. B and Omotainse S.O. (2016). Blood tumor Necrotic Factor-Alpha and pathogenesis of anaemia in *Trypanosoma brucei* infected rabbits. Sokoto Journal of Veterinary Science. Vol 14(2): 1-7. Published by Faculty of Veterinary Medicine, Usman dan Fodio University Sokoto
2. Adebayo, O. O., Ajadi, R.A., Omobowale O.T., Omotainse, S.O., Dipeolu M.A., Nottidge H.O and Otesile E.B. (2016). Reliability of Clinical monitoring for the diagnosis of Babesiosis in Dogs in Nigeria. Veterinary Medicine: Research and Reports Vol. 7; 85-90. Published by Dove Medical Press limited.
3. Okediran B. S., Kasali, O. B., Omotainse S.O. and Akinloye, A.K. (2016). Haemato-biochemical alterations as biomarkers of Lead induced toxicity in male Wister rats. Bangladesh Journal of Veterinary Medicine. (In press).

#### **2.9.3.2 Staff Overseas Training**

1. Dr. M. O. Olaniyi (Ph.D. bench-work at the University of Georgia, USA).
2. Dr A.A. Adebisi participated in Four Months United States Department Faculty Exchange Program for Veterinary Educators in Africa. In Michigan State University USA

## 2.9.4 DEPARTMENT OF MICROBIOLOGY AND PARASITOLOGY

### 2.9.4.1 Publications

1. Ojo, O.E., Schwarz S, and Michael G.B. (2016): Detection and characterization of extended-spectrum  $\beta$ -lactamase-producing *Escherichia coli* from chicken production chains in Nigeria. *Veterinary Microbiology* 194: 62-68.
2. Oladunni, F.S., Takeet, M.I., Ojo, O.E., Talabi, A.O., and Oyekunle, M.A. (2016): Phylogenetic analysis of *Dermatophilus congolensis* isolated from naturally infected cattle in Abeokuta and Ilorin, Nigeria. *Veterinary Medicine and Science*. 2, 136 – 142. Published by John Wiley and Son Ltd.
3. Sonibare, A. O., Famuyide, I. M., Takeet, M. I., Oyewusi, I. K., Egbetade, A. O., Abapka, S. A. V., Adediran, O. A and Solanke A. O (2016): Diminazene-resistant *Trypanosoma vivax* in West African Dwarf lamb, south-west, Nigeria: A case report. *Nigerian Journal of Parasitology*. 37 (1): 62 – 65. Published by Parasitology and Public Health Society of Nigeria. Available online at <http://www.ajol.info/journal.index>. ISSN 1117-4145.
4. Takeet, M. I., Peters, S. O., Fagbemi, B. O., DeDonato, M., Takeet, O.V., Wheto, M and Imumorin, G. I (2016): Phylogeny of *Trypanosoma brucei* and *Trypanosoma evansi* detected in naturally infected cattle in Nigeria by analysis of repetitive and ribosomal DNA sequences. *Tropical Animal health and Production*. 48: 1235 - 1240. Published by Springer Science + Business Media. Available on line at <http://www.springer.com/journal>. ISSN: 0049-4747.
5. Takeet, M. I., Fagbemi, B. O., Peters, S. O., Wheto, M., Yakubu, A., DeDonato, M and Imumorin, I. G. (2016): Differential IFN-gamma (IFN- $\gamma$ ), interleukin 10 (IL-10) and cardiac troponin I (cTnI) responses in natural bovine trypanosomosis in Nigeria. *Open Journal of Veterinary Medicine*. 6 (7): 105 – 111. Published by Scientific Research Publishing, Irvin, CA U.S.A. Available online at <http://www.scirp.org/journa/ojvm>. ISSN: 2165-3356.
6. Takeet, M. I., Fagbemi, B. O., Peters, S.O., DeDonato, M., Takeet, O. V. A., Wheto, M and Imumorin, I. G (2016): Molecular characterization of sub-population of *Trypanosoma congolense* detected in naturally infected cattle from Nigeria, based on nuclear and ribosomal DNA sequences. *Nigerian Journal of Genetics*. 30 (In press). Published by Elsevier. Available online at <http://www.journal.elsevier.com/rvsc>. ISSN: 0034-5288.
7. Takeet, M. I., Fagbemi, B. O., Peters, S.O., DeDonato, M., Yakubu, A., Wheto, M and Imumorin, I. G (2016): Genetic diversity among *Trypanosoma vivax* strains detected in naturally infected cattle in Nigeria based on ITS1 of rDNA and diagnostic antigen gene sequences. *Journal of Parasitic Diseases*. (In Press). Published by Springer Science + Business Media. Available on line at <http://www.springer.com/journal>. ISSN: 0975 – 0703
8. Adenaike, A. S., Mabunmi, A. O., Takeet, M. I., Adenaike, O. D and Ikeobi, C. O. N (2016): Genetic differences in the body weight and haematological traits of Nigerian indigenous chickens infected with *Eimeria tenella*. *Tropical Animal Health and Production*. DOI

10.1007/s11250-016-1114-6. (In Press). Published by Springer Science + Business Media. Available on line at <http://www.springer.com/journal>. ISSN: 0975 – 0703

9. Takeet, M. I., Badru, O. B., Olubgbogi, E and Abakpa, S. A. V. (2016): Prevalence of gastrointestinal Parasites of cattle in Abeokuta, Ogun State, Nigeria. *Nigerian Journal of Animal Science*. 18(2)458 -465. Published by Animal Science Association of Nigeria.
10. Sonibare, A. O., Takeet, M. I., Gasaliyu, K. A., Agbebi, O. T. O., Sofela, S. O and Thomas, F. C (2016): Morphologic identification and proteomic analysis in adult *Haemonchus contortus* of West African Dwarf Goats by IDE SDS-PAGE. *Nigerian Journal of Parasitology* 37 (2):206 – 211. Published by Parasitology and Public Health Society of Nigeria. Available online at <http://www.ajol.info/journal.index>. ISSN 1117-4145.
11. Takeet, M. I., Oyewusi, A. J., Abakpa, S. A. V., Daramola, O. O and Peters, S. O (2016): Genetic diversity among *Babesia rossi* detected in naturally infected dogs in Abeokuta, Nigeria, based on 18S rRNA gene sequences. *Acta Parasitologica* 62 (1): 192 - 198. Published by Institute of Parasitology, Polish Academic of Science. Available on line at <http://www.degruyter.com/journal.index>. ISSN 1230 – 2821.
12. Akande, F. A., Olayemi, M.D., Ajayi O.L, Oni, O.O, and Akinkuotu, O.A. (2016): Sero-prevalence of Swine Toxoplasmosis in Ogun state, Nigeria. *Nigeria Journal of Parasitology* 37 (2): 195-199.

#### **2.9.4.2 Linkages & Partnership On-Going Collaboration**

Dr O.E. Ojo established collaborations with:

1. Department of infection and immunity, Luxembourg Institute of Health, Luxembourg.
2. Prof. Dr. Stefan Schwarz, Institut für Mikrobiologie und Tierseuchen, Freie Universität Berlin 14163, Berlin, Germany.

#### **2.9.4.3 Grants and Awards**

❖ Dr. O. E. Ojo

Alexander von Humboldt Foundation ‘Return Grant’ (€6,000)

Alexander von Humboldt Foundation Equipment subsidy (€20,000)

❖ Dr. F. A. Akande:

Fellowship Grant, Netherlands Fellowship Programme (NUFFIC)

Using GIS in disease control, ITC Enschede and KIT, Amsterdam. Netherlands.

#### **2.9.4.4 Staff Overseas Training**

Dr. M. Agbaje (Ph.D. programme at University of Nottingham, UK).



## 2.9.5 DEPARTMENT OF VETERINARY MEDICINE AND SURGERY

### 2.9.5.1 Publications

1. T. A. Ajadi, O. L. Ajayi, A. A. Adeniyi, R. A. Ajadi (2016). Vaginal wall hyperplasia with fold prolapse in an eight –month-old cane corso. *Bulgarian Journal of Veterinary Medicine* 19(3): 252 – 258
2. Ajadi, R. A., Ashogbon, R. O., Adeniyi, A. A. (2016). Evaluation of body mass index and lipid profile in Boerboel dogs. *Nigerian Journal of Physiological Sciences* 31(1): 77 – 81.
3. Adebayo, O. O., Ajadi, R. A., Omobowale, T. O., Omotainse, S. O., Dipeolu, M. A., Nottidge, M. A., Otesile, E. B. (2016). Reliability of clinical monitoring for the diagnosis babesiosis in dogs in Nigeria. *Veterinary Medicine: Research and Reports* 7: 85 – 90
4. Bello, S.A., Akintunde O.G., Sonibare A.O. and Otesile E.B. (2016). Effects of sex, age and time of the day on vital parameters of apparently healthy West African dwarf goats in Abeokuta, Nigeria. *Alexandra Journal of Veterinary Medicine* 49 (2): 18-23. Published by faculty of Veterinary Medicine Alexandra University Egypt.
5. Sonibare, A. O., Famuyide, I. M., Takeet, M. I., Oyewusi, I. K., Egbetade, A. O., Abapka, S. A. V., Adediran, O. A and Solanke A. O (2016): Diminazene-resistant *Trypanosoma vivax* in West African Dwarf lamb, south-west, Nigeria: A case report. *Nigerian Journal of Parasitology*. 37 (1): 62 – 65. Published by Parasitology and Public Health Society of Nigeria. Available online at <http://www.ajol.info/journal.index>. ISSN 1117-4145
6. Sonibare, A. O., Takeet, M. I., Gasaliyu, K. A., Agbebi, O. T. O., Sofela, S. O and Thomas, F. C (2016): Morphologic identification and proteomic analysis in adult *Haemonchus contortus* of West African Dwarf Goats by IDE SDS-PAGE. *Nigerian Journal of Parasitology* 37 (2):206 – 211. Published by Parasitology and Public Health Society of Nigeria. Available online at <http://www.ajol.info/journal.index>. ISSN 1117-4145.
7. Takeet, M. I., Oyewusi, A. J., Abakpa, S. A. V., Daramola, O. O and Peters, S. O (2016): Genetic diversity among *Babesia rossi* detected in naturally infected dogs in Abeokuta, Nigeria, based on 18S rRNA gene sequences. *Acta Parasitologica* 62 (1): 192 - 198. Published by Institute of Parasitology, Polish Academic of Science. Available on line at <http://www.degruyter.com/journal.index>. ISSN 1230 – 2821.
8. Takeet, M. I., Badru, O. B., Olubgbogi, E and Abakpa, S. A. V. (2016): Prevalence of gastrointestinal Parasites of cattle in Abeokuta, Ogun State, Nigeria. *Nigerian Journal of Animal Science*. 18(2)458 -465. Published by Animal Science Association of Nigeria.
9. Oni.O. O. Owoade A.A. and Sonibare A.O. (2016). Persistent of Newcastle Disease virus in Poultry flocks: diagnostic challenges. *Vom Journal of Veterinary Science*. Vol. 11 25-29.

10. Odotayo, Sogunle, O.M., Adeyemi, O.A., Sonibare A.O., Oluwayinka, E.B., Ekunseyita D.A. and Safiyu, K.K (2016). Effect of dietary supplement vitamins and periods of administrations on growth Performance and Antibody titre of Broiler chicken vaccinated against Newcastle disease. The Malaysian Journal of Animal Science 19 (2)47-56. Published by Malaysian Society of Animal Production.

### **2.9.5.2 Linkages & Partnership On-Going Collaboration**

#### **Dr. R.A. Ajadi**

Collaboration with Dr. Elia Tait Wojno of the Baker Institute for Animal Health, College of Veterinary Medicine, Cornell University, Ithaca, USA. Dr. Elia is an Assistant Professor of Microbiology and Immunology at the Baker Institute and the Principal Investigator at the Tait Wojno Lab, Baker Institute, Cornell University, Ithaca, USA. The collaboration is for a study on the immunological basis for chemotherapeutic failure during treatment of transmissible venereal tumor with vincristine in dogs.

### **2.9.5.3 Grants and Awards**

- ❖ Dr. (Mrs.) E.B. Oluwayinka  
NEEDS Assessment Intervention Funds (NAIF) Sponsored by Federal Government of Nigeria (2016)
- ❖ Dr A.O. Egbetade  
Tetfund Grants Sponsored by Federal Government of Nigeria (2016)
- ❖ Dr R. A. Ajadi  
African Small Companion Animal Network (AFSCAN) studentship grant of 1,000 dollars secured to supervise Miss Jesudunni Sanni, a DVM four student to undertake her final year project with me on “Comparison of lipid peroxidation and antioxidants in normal and arthritic dogs”.

## 2.9.6 DEPARTMENT OF VETERINARY PUBLIC HEALTH AND REPRODUCTION

### 2.9.6.1 Staff Overseas Training

Dr. B. B. Oluwasile (Ph.D. programme at Prince Edwards University, Canada).

## 2.9.7 VETERINARY TEACHING HOSPITAL

### 2.9.7.1 Linkages & Partnership On-going Collaboration

Professor A. K. Akinloye: Director of Veterinary Teaching Hospital.

Visited North Sichuan Medical University, Nanchong, China for 3 months training in Molecular Imaging.

The College of Veterinary Medicine commenced academic activity in 2001/2002 session and obtained full accreditations from both VCN and NUC in 2008.

Subsequently by 2014 Veterinary Council of Nigeria (VCN) Accreditation visitation to the College, the Doctor of Veterinary Medicine degree programme was again fully accredited up to 2019. Similarly, the National University Commission (NUC) Accreditation visitation to the College in December 2014, the Doctor of Veterinary Medicine degree programme of the University was fully accredited for a further period of five years (up to 2019). The College has successfully produced 183 students at Undergraduate level while at Post graduate a total of 28 students: 23 Masters and 5 PhD degrees. Most of our graduates from COLVET, FUNAAB are performing excellently well based on feedback from employer of labor in both companion animals and livestock sub sectors.

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## 2.9.8 Students' Statistics

S/ N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	VET	25	11	36	25	12	37	22	14	36	23	16	39	30	12	42	19	9	28	144	74	218
	Sub- Total	25	11	36	25	12	37	22	14	36	23	16	39	30	12	42	19	9	28	144	74	218

## 2.9.9 Statistics of Promoted Staff in the College of Veterinary Medicine

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
	VET.MED.							
1	VET.ANA.	1	0	1	0	0	0	0
2	VET. PAT	0	0	0	0	0	0	0
3	VET.PUB.HLH	0	0	2	1	0	0	0
4	VET.PHYS.	0	1	1	0	0	0	0
5	VET.MICRO	0	1	0	0	0	0	0
6	VET.MED. SUR.	0	0	1	0	0	0	0
	SUB TOTAL	1	2	5	1	0	0	0

## 2.9.10 Publications, Grants, Seminars and Conferences

S/N	COLLEGE/DEPT	SEMINAR/CONFERENCE	RESEARCH		
			NO OF PUB.	GRANTS	HONOURS
1	VET.PHY	0	16	1	0
2	VETPATHO	2	3	0	0
3	VET.MICRO	1	12	2	0
4	VET.MED & SUR	0	10	3	0
5	VET.PUB HEALTH	1	0	0	0

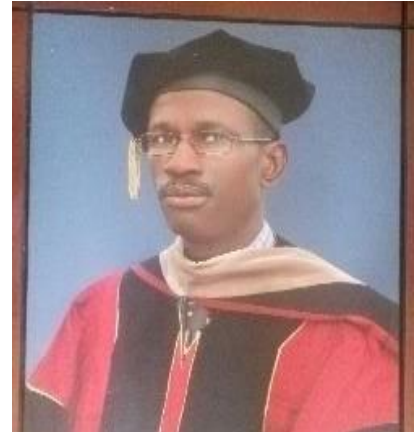
## 2.9.11 Staff Disposition

S/N	COLLEGE/ DEPARTMENT/UNIT	TEACHING			TECHNICAL	OTHERS	
		M	F	M	F	M	F
	COLVET						
1	VET	36	9	20	15	4	2
	SUBTOTAL	36	9	20	15	4	2

## 2.10 COLLEGE OF MANAGEMENT SCIENCES (COLMAS)

### 2.10.1 Overview of the College

The College comprises five well-designed departments that perfectly key into the mandate of the University. They are Accounting, Banking and Finance, Business Administration, Economics and Entrepreneurial Studies. All the five departments had the mandate of NUC to function as fully-fledged departments. The College has successfully graduated two sets of students. The first set graduated in 2014/2015 Academic Session while the second set graduated in 2015/2016 academic session. Accounting Department of the College has been given full accreditation by the Institute of Chartered Accountant of Nigeria (ICAN). Dr. Olabisi Jayeola was appointed the Acting Dean of the College on June 1, 2016, taking over from Dr. Biola Phillip.



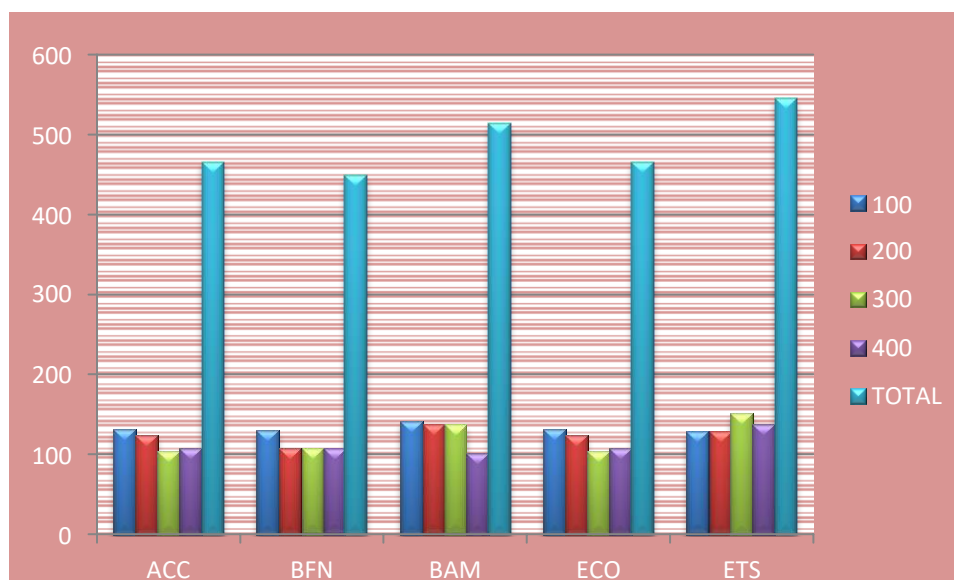
**Dr. Olabisi Jayeola**  
Ag. Dean, COLMAS

The College Building was donated by Central Bank of Nigeria.

Adjacent to the College building is a building donated to Accounting Department by Association of National Accountants of Nigeria (ANAN) for linkage programmes in accounting research.

### 2.10.2 Undergraduate Enrolment

The 2015/2016 Undergraduate students' Enrolment is presented below:



## **2.10.3 DEPARTMENT OF ACCOUNTING**

### **2.10.3.1 Publications**

1. Olabisi, J., Soyemi, K. A., &Omojola, S. O. (2016). Cost management techniques and product quality in Nigerian Quoted Foods and Beverages Companies. *Fountain Journal of Management and Social Sciences*, 5(2), 96-106.
2. Oladunjoye, T. O., Olabisi, J., & Oworu, O. O. (2015). Interest rate and entrepreneurial development in Lagos Metropolis. *International Journal of Accounting and Finance*, 1(1), 102-115.
3. Oabisi, J., Ekpudu, J. E., &Onou, D. P. (2015). Determinants of leasing decision in Nigerian Quoted Manufacturing Companies. *International Journal of Management and Social Sciences*, 8(1&2). 35-49.
4. Ekpudu, J. E., Posu, S. M. A., &Olabisi, J., (2015). Microfinance Banks' Loans and Small and Medium Enterprises Performance in South-West Nigeria. *International Journal of Management and Social Sciences*, 8(1&2). 212-222.
5. Olabisi, J., Oladunjoye, T. O., &Babatolu, A.T. (2015). Income tax administration and entrepreneurial development in Ogun State, Nigeria. *ICAN Journal of Accounting and Finance*, 2, 50-66.
6. S.O. Kajola, A. A. Adewumi (2015). Dividend pay-out policy and firm financial performance: evidence from listed non-financial firms, *International journal of Economics, Commerce and Management*, United Kingdom, 3(4) <http://ijecm.co.uk/ISSN 23480386>

## **2.10.4 DEPARTMENT OF BANKING AND FINANCE**

1. Oyetayo, O., &Adeyeye, P. (2016). A Robust Application of the Arbitrage Pricing Theory: Evidence from Nigeria, accepted for publication by *Journal of Economics and Behavioural Studies (JEBS)* Published by International Foundation for Research and Development
2. Adeyeye, P., &Oyetayo, O. (2016). Balance Sheet Management and Outreach Success for Microfinance Banks: Evidence from Nigeria. *International Journal of Economic Development and Investment*, Vol 7(1). pp Published by the International Centre for Integrated Development Research, Akwa Ibom State, Nigeria
3. Oyetayo, O., & Fatokun, J. (2015). Cash based and electronic based transactions in Nigeria: The role of the National aggregator, *Journal of Research in National Development*, Vol. 13 (2A), December, pp 130-140. Published by Transcampus Interdisciplinary Research and Study Group, Federal University of Technology, Owerri. [www.ajol.info/journals/jorind](http://www.ajol.info/journals/jorind)

### 2.10.5 DEPARTMENT OF BUSINESS ADMINISTRATION

1. Abiodun, A J, Ibidunni, A S & Kehinde, O. J (2015) Socio demographic Determinants of Communication and Information Technology Appreciation and Usage among Healthcare Professionals, *International Journal of Health Economics* , 5:5-19
2. Ojo O.A, Akinbola O.A. and Oyedele O.O (2015) Multinational Corporations Work Environment of Brewing Firms and Employees Productivity. (Leonardo Journal of Sciences, Switzerland, Europe). Vol. 27 (2), Pp. 88-103
3. Akinbola O.A. Ojo O.A. and Ajonbadi H.A. (2015) Role of Waste Management and Wealth Creation in Nigeria, Evidences From Lagos State Waste Management Authority. (Ife Psychologia Journal, ObafemiAwolowo University). Vol. 23 (1), Pp. 120-30
4. Akinbola O.A. Ogunnaike O.O. Amahian A.B. (2015). The Influence of Contextual factors on Entrepreneurial Intention of University Students: The Nigerian Experience. (Journal of South African Business Research). Vol. 2015 Pp. 1-13

### 2.10.6 DEPARTMENT OF ECONOMICS

1. Akinbode S.O, J.E Ekpudu, O.T Ojo and A.O Are (2016). Consumers' Acceptability and Patronage of Internet Retail Market in Nigeria. *IOSR Journal of Business and Management*, 18(10): 81-89. Published by IOSR Journals India.
2. Oke F.O, Dipeolu A.O and Akinbode S.O (2016). Analysis of Nutritional Label Use on Packaged Foods among Urban Homemakers in Ogun State, Nigeria. *Journal of Agricultural Science and Environment*, 16(1): 1– 8. Published by the Federal university of Agriculture, Abeokuta, Nigeria.
3. Akinbode S.O. (2015). "A Linear Approximation Almost Ideal Demand System of Food sin South-West Nigeria". *International Journal of Social Economics*, 42(6), 530-542. DOI: <http://dx.doi.org/10.1108/IJSE-08-2014-0165> Published by Emerald Publishing Limited, United Kingdom.

## 2.10.7 DEPARTMENT OF ENTREPRENEURIAL STUDIES

The Department of Entrepreneurial Studies has a National association of Entrepreneurial Studies Students' with the *Motto: Shaping Entrepreneurial Mind for Economic Development.*

The association is subjected to the laws of the University. The development ensures that all students' issues are attended to and where assistance is required they are promptly rendered.

### 2.10.7.1 Achievements

- (a) A total of 125 students graduated from the department in 2015/2016 in contrast to a total of 84 students that graduated from the department in 2014/2015.
- (b) For the period under review the sum of one hundred thousand (₦100,000.00) was given to the department to be endowed for the best student.
- (c) Visiting Fellow Levy Economics Institute Summer Minsky Seminar 2015 New York United State.
- (d) DSGE Summer School in Computational Economics Universita Degli Studi Di Cagliari Department of Economics Science and Industrial Organization (2015) Cagliari, Sardina Italy.
- (e) Academic staff also attended several conferences.

### 2.10.7.2 Publications

1. Akinyele, S.T., Ogbari, M., Akinyele, F.A &Somi, B. (2016). Technology Innovation on service quality in the Educational Industry: An Empirical study. *Journal of Business Administration and Management Sciences Research* 5(5).Published by apex Journal International.
2. Akinyele, S.T., Peters. M. andAkinyele, F.A (2016). Work-life balance imperatives for modern work organizations: A Theoretizal Perspective. *International Journal of Management Studies and Research* 4(8):47-56. Available online at <http://www.arcjournals.org>.Published by Academicians Research Centre.
3. Akinyele, S.T.,Akinyele, F.A &Ajagunna O.D (2016).Infrastructure development as predictor to Small and Medium Enterprises Performance in Nigeria.Kuwait Chapter of Arabain *Journal of Business Management Review*, 6(3) Published by American University of Kuwait and Zarsumi.
4. Adegbuyi, A.O., Akinyele, F.A. &Akinyele, S.T. (2015). Social Media Marketing on Small Scale Business Performance in Ota- Metropolis, Nigeria.*International Journal of Social*



*Sciences & Management*, 2(1):3-10. An International publication of the SEM-BIOTECH Publishing Research and Study.

5. Akinyele, S.T. (2015).Effect of Relationship Marketing on Customer Loyalty: Empirical Evidence from Access Bank, Plc, Nigeria. *LASU Journal of Management Sciences*, 2(2):44-63. Published by Faculty of Management Science, Lagos State University.
6. Akinyele, S.T., OgbarI, M., Akinyele, F.A &Dibia, K. (2015).Effect of Succession Planning and its Impact on Organizational Survival. *Journal of Research in National Development*, 13 (12A):166-175 .An International publication of the Transcampus Interdisciplinary Research and Study Group.Published by Federal University of Technology, Owerri. Available online at <http://www.transcampus.org>; wwwajol.information/jorind.
7. Ojo, O.A, Akinbola, O.A, and Oyedele, O.O (2015) Multinational Corporations Work Environment of Brewing Firms and Employee Productivity in Nigeria. *Journal of Business and General Management*. 4(1)13-14
8. Akinbola, O.A, Oyedele, O.O, and Tijani, A.A, (2015) “The Conexus of Entrepreneurship Education and the Entrepreneurial Intention of Tertiary Institution Students in Nigeria Conference held at Centre for Excellence in Software Engineering OAU, Ile Ife.

## 2.10.8 CONFERENCE ATTENDANCE

1. 1<sup>st</sup> International Conference on Democracy and New Public Management Emerging Issues and Challenges in Africa held between 16<sup>th</sup> – 17<sup>th</sup> November, 2016, Faculty of Management Sciences, University of Ilorin.
2. 2<sup>nd</sup> International Conference on Education, Development and Innovation held on 29<sup>th</sup> – 31<sup>st</sup> August, 2016 at Tang Palace Hotel, Accra-Ghana in collaboration with Methodist University College Ghana.
3. 1<sup>st</sup> International Training on Losses along Food Chain held on 17<sup>th</sup> – 19<sup>th</sup> October, 2016 at Patrice Lumumba, Accra- Ghana.

## 2.10.9 STUDENTS' STATISTICS

S/ N	COLLEGE/ DEPT	100L			200L			300L			400L			500L			600L			GRAND TOTAL			
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
	<b>COLMAS</b>																						
1	<b>ACC</b>	76	63	<b>139</b>	49	82	<b>131</b>	46	61	<b>107</b>	61	80	<b>141</b>	0	0	<b>0</b>	0	0	<b>0</b>	232	286	<b>518</b>	
2	<b>BFN</b>	64	66	<b>130</b>	43	64	<b>107</b>	47	58	<b>105</b>	53	52	<b>105</b>	0	0	<b>0</b>	0	0	<b>0</b>	207	240	<b>447</b>	
3	<b>BAM</b>	60	80	<b>140</b>	73	64	<b>137</b>	55	76	<b>131</b>	52	59	<b>111</b>	0	0	<b>0</b>	0	0	<b>0</b>	240	279	<b>519</b>	
4	<b>ECO</b>	71	60	<b>131</b>	66	57	<b>123</b>	51	53	<b>104</b>	61	47	<b>108</b>	0	0	<b>0</b>	0	0	<b>0</b>	249	217	<b>466</b>	
5	<b>ETS</b>	54	74	<b>128</b>	54	74	<b>128</b>	77	72	<b>149</b>	75	77	<b>152</b>	0	0	<b>0</b>	0	0	<b>0</b>	260	297	<b>557</b>	
	<b>Sub-Total</b>	<b>325</b>	<b>343</b>	<b>668</b>	<b>285</b>	<b>341</b>	<b>626</b>	<b>276</b>	<b>320</b>	<b>596</b>	<b>302</b>	<b>315</b>	<b>617</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	1,188	1,319	<b>2,507</b>	

### 2.10.10 Statistics Of Promoted Staff in the College Of Management Sciences

S/N	COLLEGE/ DEPT	NUMBER OF STAFF PROMOTED						
		PROF.	ASS. PROF	SNR. LECT	L I	L II	ASST. LECT.	GRAD. ASS.
1	ACCOUNTING	0	0	1	0	0	0	0
	<b>SUB TOTAL</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### 2.10.11 Staff Disposition

S/N	COLLEGE/ DEPARTMENT/ UNIT	TEACHING		TECHNICAL		OTHERS	
		M	F	M	F	M	F
	<b>COLMAS</b>						
1	ACC	6	0	0	0	1	2
2	BFN	5	1	0	0	0	1
3	BAM	5	0	0	0	0	2
4	ECO	8	1	0	0	0	2
5	ETS	6	0	0	0	0	1
	<b>SUBTOTAL</b>	<b>30</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>8</b>

## CHAPTER THREE

### 3.0 REPORTS FROM OTHER UNITS

#### 3.1 OFFICE OF THE DEPUTY VICE-CHANCELLOR (ACADEMIC)

##### 3.1.1 Brief Introduction

The office of the Deputy Vice-Chancellor (Academic) was established in September 17, 2007, in consonance with the remarkable growth of the University during past two decades.

The office of the Deputy Vice-Chancellor (Academic) aimed at sharing the routine duties of the office of Vice-Chancellor to ensure the smooth running of the system and promoting the actualization the goals, mission and vision of building a World Class University.



**Prof. C. O. Eromosele**  
**DVC Academic**

##### 3.1.2 The duties of the DVC (A) among others include the following:

- Supervision/coordination of all academic units/departments
- Coordination/supervision of examinations
- Coordination of AP&CC (Alternate Chair to the Vice-Chancellor);
- Approval of examination results on behalf of the Vice-Chancellor;
- Coordination of accreditation exercise;
- Supervision/Chair of Admissions Committee;
- Coordination/Chair – Students’ Disciplinary Committee; and
- Other ad-hoc assignments as the Vice-Chancellor so directed

##### 3.1.3 Activities

The Office of the Deputy Vice-Chancellor (Academic) in the period under review (year 2016) has carried out a number of activities, which include the following:

##### 2014/2015 Academic Calendar session

- (i) Successful completion of the 2014/2015 Session’s Academic Calendar
- (ii) Production of the 2016 University Calendar
- (iii) Review and execution of 2014/2015 Academic Calendar with the successful conduct of the First Semester, Second Semester and FPY Examinations of the calendar year.

## **2015/2016 Academic Calendar session**

- (i) Successful conduct of the 2016/2017 Pre-admission Screening exercise in accordance to government directive, and successful conduct of 2016/2017 Admission exercise with a total of 3,882 candidates offered provisional admission.
- (ii) Coordination and successful hosting of a two-day Capacity Building Workshop for the Heads of Department in collaboration with Academic Planning Unit.
- (iii) Guidance to all academic departments in the implementation of NUC's BMAS
- (iv) Successful completion of the 2015/2016 Session's Academic Calendar; with the conduct of First Semester, Second Semester and FPY examinations of the calendar year.

## **3.2 OFFICE OF DEPUTY VICE-CHANCELLOR (DEVELOPMENT)**

### **3.2.1 Brief Introduction**

The Office of Deputy Vice-Chancellor (Development) was established in September, 2007. The Deputy Vice-Chancellor (Development) is mandated to oversee *Development* related matters such as:

- a) Exchange and linkage programmes both local and international
- b) Liaising with external agencies and Non-Government Organizations
- c) Development innovative programmes and ventures
- d) Exploring Industrial relations for University's development
- e) Functions dealing with need-driven research
- f) Chairing of ad-hoc development review as delegated by the Vice-Chancellor



**Prof. O.A. Enikuomehin**  
DVC Development

In addition, the Office also co-ordinates and integrates the operations of:

- Agricultural Media Resources and Extension Centre (AMREC)
- Centre for Entrepreneurship Studies (CENTS)
- Institute of Food Security, Environmental Resources and Agricultural Resources (IFSERAR)
- Alumni Affairs
- Directorate of University Farms (DUFARMS)
- FUNAAB Companies
- Community Based Farming Scheme (COBFAS)

### **3.2.2 Projects Executed Within the Period**

The Office of the Deputy Vice-Chancellor (Development), during the period under review coordinated the activities of the following Boards, Committees, Units and Directorates:

- a) Directorate of University Farms (DUFARMS) – commercial and Innovation as well as Teaching and Research Farms.
- b) International Centre for Professional Development (ICPD), which provides state-of-the-art IT solutions, certification in IT, management and leadership training programmes.
- c) FUNAAB Companies with various enterprises such as:
  - FUNAAB Palm wine Enterprise;
  - FUNAAB Bread Enterprise;
  - FUNAAB Fufu Enterprise;
  - FUNAAB Honey Enterprise;
  - FUNAAB Cashew Enterprise and;
  - FUNAAB Palm Oil Enterprise.
- d) Liaising with external agencies as Raw Materials Research and Development Council (RMRDC), National Agency for Science and Engineering Infrastructure (NASeni) etc. These collaborations have yielded positive result such as the donation of some Cashew Processing Equipment to the University by RMRDC.

### **3.2.3 Major Achievements**

As stated above, the major achievements of the Office of Deputy Vice-Chancellor, Development within the period under reference are as listed below:

- a) Facilitation of improved productivity in various Centres, Directorates and Units under the Office of Deputy Vice-Chancellor, Development.
- b) Facilitations of efforts aimed at Improved Revenue Generation for the University.
- c) Facilitation of productive collaboration between FUNAAB and Teeside University, North East England through the International Centre for Professional Development (ICPD).
- d) Co – ordination of Utilization of TETFUND and NEEDS Assessment grants for staff training and development.

### **3.3 THE REGISTRY**

#### **3.3.1 Brief Introduction**

The Registry is a key Department in the University headed by the Registrar, a Principal Officer and the Chief Administrative Officer of the University who is responsible to the Vice-Chancellor on the day-to-day administration of the University. The Registrar by virtue of the office is the Secretary to the Governing Council, Senate, Congregation and Convocation.



**Mr. M.O. Ayoola**  
**Registrar**

The Registry in addition to the Office of the Registrar has four

(4) main divisions namely:

- Council Affairs;
- Academic Affairs (Senate & Admissions Unit and Examinations & Record Units);
- Personnel Affairs (Establishment & Human Resources Unit and Pensions Matters); and
- Executive Affairs (Domicile in the Office of the Vice-Chancellor).

#### **3.3.2 Major Achievements**

The Registry under the current leadership has been successfully repositioned to discharge its statutory responsibilities to staff and student in line with the University mission and vision adopting principles and practices of 21st century University Administration.

Premise on the above, the Registry Unit worked assiduously to ensure smooth service delivery in the University.

#### **3.3.3 Senate and Admissions Unit**

The Senate and Admissions Office is one of the Units of the Directorate of Academic Affairs of the Registry. The Unit is the:

- (i) Secretariat of the University Senate;
- (ii) Admissions Office and Secretariat of the Admissions Committee;
- (iii) Secretariat for all Senate Statutory and Ad-hoc Committees; and
- (iv) Secretariat for Committee of Deans and Directors.

### **3.4 THE BURSARY DEPARTMENT**

The Bursary is the Department of the University charged with the main responsibility of managing the financial resources of the institution. The Department is under the headship of the Bursar, who is the Chief Financial Officer of the University, and is responsible to the Vice-Chancellor for the day-to-day administration and control of the financial affairs of University. The Bursary maintains good internal control system, prepares proper books of accounts and allocates and controls the University Annual Budget.



**Mrs. Oluremi O. Oyewunmi  
Acting Bursar**

## **3.5 ‘NIMBE ADEDIPE LIBRARY**

### **3.5.1 BRIEF INTRODUCTION**

The Library named after the foundation Vice-Chancellor, Prof. ‘Nimbe Adedipe was established in 1988. At inception, it inherited 16,000 volumes of books and 120 titles of current journals from its predecessor, the College of Science and Technology. Over the past 27 years efforts have continued to be made to improve the quality of the library in terms of collection development, physical facilities and manpower. ‘Nimbe Adedipe Library provides bibliographic and information services for all the academic programmes of the University.



**Dr.(Mrs.) M. O. Salaam  
University Librarian**

### **3.5.2 LIBRARY COMPLEX**

The University Library is a complex of libraries comprising the main library (‘Nimbe Adedipe Library), Institute of Human Resources Development Library (INHURD) and the college libraries.

The college libraries are as follows:

- College of Food Science and Human Ecology (COLFHEC) Library
- College of Animal Science and Livestock Production (COLANIM) Library
- College of Management Science (COLMAS) Library
- College of Biological Sciences (COLBIOS) / College of Physical Sciences (COLPHYS) Library
- College of Engineering (COLENG) Library
- College of Veterinary Medicine (COLVET) Library
- College of Agricultural Management and Rural Development (COLAMRUD) Library

The Colleges of Biological Sciences and Physical Sciences are still sharing a Library while the College of Environmental Resources Management (COLERM) Library is yet to take off.

Within the main library, there are the following departments:

- Collection Development Department (Acquisitions)
- Cataloguing (Technical Services)
- Readers’ Services (Circulation, Reference, Reserved Book Room (RBR), ‘Nimbe Adedipe Research Library (NARL), and Osunkeye Food Nutrition Library (OFNL)



- Serials Department
- Automation and E-library Department
- College Libraries

The library through the personnel in each of these departments carried out its functions and services during the 2015-2016 sessions.

### **3.5.3 MAIN LIBRARY**

#### **3.5.3.1 COLLECTION DEVELOPMENT DEPARTMENT (ACQUISITIONS)**

The Collection Development department is charged with the responsibility of acquiring relevant book materials in consideration of the mandate of the institution. The department acquires materials by purchase, donations, (solicited and unsolicited), exchange and bequeath etc. The Collection Development department procedure encompasses many library operations such as selection of individual titles for purchase, bibliographic checking of newly acquired materials, accessioning and stamping each volume, as well as maintaining a record of these materials. Thereafter, they are moved to the cataloguing section for further processing. The department is also involved with the withdrawal of expendable materials.

#### **BOOKS ACQUIRED AND PROCESSED**

<b>2015/2016</b>
6,024

**Other Duties:** The backlog of bibliographic cards (pink cards) of acquired books were sorted and alphabetically arranged in the wooden cabinets in the department for use.

#### **3.5.3.2 CATALOGUING DEPARTMENT**

The Cataloguing department is one of the key departments of the library. It is the nerve centre of the library where the behind the scene activities take place. Thus, it is variously called the work-room or the workshop of the library. The Cataloguing department aims at ensuring that all newly acquired library materials, both books and non-book materials are promptly processed and made available to the prospective users. The sole objective of which is to grant users unhindered access to valuable information materials in the various disciplines offered in the University.

## Activities

The Cataloguing department carries out the following routine activities:

- Online/Manual cataloguing and classification of books for both the main and the ten (10) College Libraries.
- Processing-that is, the pasting of call mark, book envelope, date due slip, etc. on the books processed.
- Writing of cataloguing worksheets.
- Catalogue card production.
- Taking of relevant statistics of activities held in the department.
- Filing of cards
- Shelving, shelve reading and shelf supervision.

### BOOKS CATALOGUED

<b>2015/2016</b>
2,005

### CARD PRODUCTION

<b>2015/2016</b>
1,456

### 3.5.3.3 READER'S SERVICES DEPARTMENT

This department is the main public service department of the library and it serves the needs of staff and students. The department is sub-divided into the following units: Circulation unit, Reference unit, Osunkeye Food and Nutrition unit, 'Nimbe Adedipe Agricultural Research Collection unit, Reserved Book Room unit, Reading Rooms and 24-Hours Reading Room. Anyone wishing to use the library must be duly registered. Requirements for registration include filling the library registration card to which a copy of recent passport photograph and a photocopy of school fees receipt are attached.

#### NUMBER OF REGISTERED USERS

Category of Users	2015/2016
Academic Staff	59
Senior Non-Teaching Staff	13
Junior Staff	16
Students	88

## BOOK CONSULTED

Category	2015/2016
Home Borrowing Book Usage	22,256
General Book Usage	132,234

### 3.5.3.4 SERIALS DEPARTMENT

This department houses and manages periodicals such as newspapers, magazines, journals, proceedings etc. It is a research collection, hence; the department is open only to faculty members, postgraduate students and final year students carrying out their research works. The journals on the shelves are arranged in alphabetical order by their titles. Serials publications are mainly for reference use but permission may be granted to take them out for photocopying. The department also has journals on CD-ROM such as The Essential Electronic Agricultural Library (TEEAL), which provides full-text access to the world most important agricultural journals, which is the world's leading agricultural database, the full text of these journals can be printed out on request on payment of a token fee.

Also, the department has access to some full-text e-journals (Electronic Journals) on the Internet. They include AGORA, HINARI, etc. The passwords to these current databases are available for users at the Serials department.

#### USERS' STATISTICS

2015/2016
4,419

#### PRINTED JOURNALS

##### CONSULTED

2015/2016
629

##### JOURNALS ACQUIRED

2015/2016
449

### 3.5.3.5 COLLEGE LIBRARIES

The University Library currently has seven college libraries, namely: College of Food Science and Human Ecology (COLFHEC) Library, College of Animal Science and Livestock Production (COLANIM) Library, College of Management Science (COLMAS) Library, College of Physical Sciences (COLPHYS) /College of Biological Sciences (COLBIOS) Library, College of Engineering (COLENG) Library, College of Veterinary Medicine (COLVET) Library, College of Agricultural Management and Rural Development (COLAMRUD) Library. These libraries were established for the purpose of bringing library services to the door steps of the users.

**NUMBER OF USERS, CONSULTED BOOKS and JOURNALS IN THE COLLEGE LIBRARIES  
2015/2016**

<b>College Library</b>	<b>Books</b>	<b>Journals</b>	<b>Users</b>
COLMAS	3,070	35	4,137
COLPLANT	3,976	27	3,815
COLENG	7,088	86	4,632
COLMRUD	462	36	2,870
COLFHEC	1,009	46	5,067
COLVET	3,094	420	2,011
COLBIO/COLPHYS	3,848	148	6,544
COLANIM	833	223	3,673

**3.5.3.6 AUTOMATION AND E-RESOURCES DEPARTMENT**

The department manages the Library's electronic resources such as e-books and full-text bibliographic databases. These facilities are expected to be accessed and provide information to the faculty, postgraduate and undergraduate students in their research work. The e-resources can be accessed and used with Internet facilities for the purpose of teaching, learning, research, leisure and decision making.

**NUMBER OF USERS**

<b>COLLEGE</b>	<b>2015/2016</b>
COLMAS	458
COLPLANT	215
COLENG	129
COLAMRUD	168
COLFHEC	92
COLVET	11
COLBIOS/COLPHYS	581
COLANIM	231
COLERM	515
<b>TOTAL</b>	<b>2,400</b>

### **3.5.4 MAJOR ACHIEVEMENTS**

#### **3.5.4.1 Outreach Services**

As part of our services to the University community the Automation department has taken it as a duty to empower both staff and students in information literacy skills which is a prerequisite for lifelong learning. During the 2015/2016 academic session trainings were held in some colleges; namely College of Agricultural Management and Rural Development (COLAMRUD), and College of Plant Science (COLPLANT). Staff and students that participated in the training appreciated the sessions

#### **3.5.4.2 Collaboration and Partnership**

The Department, on behalf of the University Library facilitated an international partnership with the Oregon State University Libraries (The Valley Library) in Corvallis, U.S.A. A Memorandum of Understanding was signed between the two Universities.

#### **3.5.4.3 In-house Training**

Trainings were organized for library staff during the period under review. Worthy of note was the refresher training on the use of KOHA Integrated Library Software which was conducted between the 12<sup>th</sup> and 16<sup>th</sup> of September 2016. After the training a total of two thousand and fifty –seven (2,057) worksheets were imputed into the software.

### **3.5.5 INSTITUTE OF HUMAN RESOURCES DEVELOPMENT (INHURD) LIBRARY**

The INHURD Library building was completed and moved into in the year 2010. The library tastefully furnished, could accommodate about 200 users at a time. At inception in 2010, the library had a total stock of 472 volumes of books. The library is not a lending library. It is for reference only.

<b>INHURD LIBRARY</b>	<b>2015/2016</b>
No of Registered Students	1,532
No of Registered Staff	34
No of Consulted Books	11,002
No of books loaned to Staff	534

### **3.6 THE POSTGRADUATE SCHOOL**

Postgraduate studies in the modern world must be dynamic, responding to new knowledge and the needs of the society. A postgraduate study should be able to reshape the student and make him a creator of new ideas. Closely related to this is the quality of the supervisor of the students. Supervising postgraduate studies integrates teaching and research capability of the supervisor. It requires careful attention to details, painstaking efforts and integrity. At the end of the study, a student should be able to conceive, design and carry out a research project without supervision.



**Prof W.O. Alegbeleye**  
**Dean, Postgraduate School**

The publication of a postgraduate prospectus is an attempt to provide information about the programmes run in the University. It contains necessary brief about the programs including the course synopses, the regulation governing the award of the degrees as well as the staff strength behind each programme. This document contains updated information in the review of regulations governing various programmes and about the new programmes introduced.

The challenge is to continue to develop new programmes that will address the increasing needs of the society particularly in our mandate area. The comprehensive nature of this publication will be a handy reference and will facilitate the work of Senate, Board of Postgraduate School, Colleges and Departments that have ability for formulating and executing policies and regulations on postgraduate studies.

The Postgraduate School acknowledges the contribution of the Departments and Colleges where the programmes are domiciled. The school is also grateful to the Postgraduate School Board for its invaluable inputs.

#### **3.6.1 Linkage and Partnerships**

The Postgraduate School and the Centre for Excellence in Agricultural Development and Sustainable Programme (CEADESE) are partnering in Postgraduate Programme both at masters and Post-Doctoral level. The linkage begins in 2014/2015 academic session and expected to bring a good mutual relationship for the offices, the university at large.

### **3.7 THE DIVISION OF STUDENT AFFAIRS**

#### **3.7.1 BRIEF INTRODUCTION**

The Division of Student Affairs is a unit under the Vice-Chancellor's Office. It is headed by a Dean who is responsible to the Vice-Chancellor for the day-to-day running of the Division. The Dean is assisted by a Deputy Dean. In the Division also is a Principal Assistant Registrar (Student Affairs Officer) who oversees the administrative activities. The Division oversees the welfare of all students of the University.



**Prof. Y. Akegbejo-Samsons  
Dean, Students Affairs**

#### **3.7.2 PHILOSOPHY AND OBJECTIVES**

In order to enhance teaching, research and extension mandates of the University, the Student Affairs Division strives to ensure peace and harmony on the campus by focusing mainly on students' welfare, union activities, hostel management, mobilization of qualified graduates for the National Youth Service Corps (NYSC), financial assistance through bursary and scholarship awards as well as providing counseling services to the students. It ensures that students, irrespective of religion, race or political affiliations, are treated equally and are found worthy in character as they pursue their legitimate academic aspirations.

#### **3.7.3 STRUCTURE**

In actualizing the enormous tasks mentioned above, the Student Affairs Division has the following units under it:

- i. Student Affairs Office
- ii. Counseling Unit
- iii. Hostels (Male and Female)

#### **3.7.4 REPORT OF ACTIVITIES**

##### **(i) Orientation Programme**

The orientation for the new students was held in the years under review (i.e. 2012/2013, 2013/2014, 2014/2015, 2015/2016 sessions) and it was well attended by the students. It was an

opportunity to inform the students on what to expect during their stay in the University and how to ensure a peaceful co- existence with others. The topics addressed during the orientation programmes include but not limited to: Healthy living, Study habit, Codes of conducts, security matters among others.

### **(ii) Student Union Elections**

Despite the challenges, the Student Affairs Division ensured that the elections into the various offices of the union were peaceful, credible and worthwhile. Prior to the elections, the aspirants into the various offices were screened to ascertain their eligibility to contest the union elections. They were screened by the Nigeria Police; and the University Environmental Unit. The list of the contestants was also forwarded to the Department of State Services for screening. Staff and students of the University were alerted to come with their identity cards on the Election Days in order to disallow disgruntled elements and external forces from interfering. Members of Staff of the Student Affairs Division, members of the Man O' War Club and the State Security Service were on ground to monitor the elections. The electronic voting system was introduced for the conduct of the student union election since 2014/2015 and it has been very successful. The elections were acclaimed as free, fair and transparent by all stakeholders each year. Also, the officials of the union were sworn in at the ceremonies attended by the Vice Chancellor and other Principal Officers of the University.

### **(iii) Mobilisation of Corps Members**

The mobilization of qualified graduates of the University for NYSC programme is done in the Student Affairs Division. The Division carries out this important assignment with integrity and transparency. With the support of the University Management, the University has no backlog of qualified graduates yet to be mobilized. It is interesting to note that the name of the University has not featured in any of the NYSC lists of the Institutions with observed lapses in presentation of master list of graduates for mobilisation or any other illegalities being perpetrated in some Institutions. Rather, the University has always being commended for a job well done. Qualified graduates of the University were mobilized at various times, during the time under review, to participate in the National Youth Service Corps (NYSC) as follows:

- (i) 2016 Batch 'A' - 2467
- (ii) 2016 Batch 'B' - 161



**(iv) Oversight of Student Union Activities**

The Division was involved in monitoring the activities of the Student Union towards ensuring peace and stability in the University. Students' demonstration as witnessed on Thursday, 18 August, 2016, after the robbery incident that took place in a private hostel situated outside the University Campus before it snowballed.

**(v) Facilitating Negotiations with Transporters**

The Division facilitated negotiation with transporters in order to forestall crisis between students and the transporters. The interaction ensured that a harmonious conclusion was reached by the two bodies.

**(vi) Monitoring of FUNAAB Student Union Social Activities**

All social activities of the Student Union were effectively monitored by the Officers of the Division who had to spend quality time to ensure that there was orderliness.

**(vii) Liaising between Management and Students**

Interactions between the management and the student leaders were initiated to ensure that grey areas were cleared before they became contentious issues.

**(viii) Projects monitored by the Division in the Student Hostels**

- (a) Rehabilitation and renovation of existing Hostels to the tune of ₦10m.
- (b) Digging of additional Wells to augment supply of water at the newly completed female hostels.
- (c) Replacement of damaged Television sets and DVD decoders in both the Female and Male hostels.
- (d) Refurbishing of the damaged student unions' bus.
- (e) Provision of 45 wooden beds for foreign students under CEADESE
- (f) Painting of the University Hostels.
- (g) Ensuring that the water tanker supplied water to the hostels to avert the problem of perennial water shortage being faced by the students.
- (h) Rehabilitation of the adjoining area at the Student Centre

**(ix) Major achievements**

- (a) Protection of Students from Sexual or any Form of Harassment: The University Management has zero-tolerance for indiscipline at any level. Hence, adequate measures are put in place to prevent and deal with cases of sexual or any other form of harassment. It is interesting to note that the University, to a very large extent, is noted for having good students with a high standard of academic and moral status.
- (b) Youth Organization Support: During the years under reference, the Division encouraged the selfless contributions and services to humanity rendered by the Man-O-War, Road Safety and Nigerian Red Cross Society to the entire University Community.
- (c) Enrollment of registered students of the University on the Tertiary Institution Health Insurance Scheme (TISHIP).
- (d) Production of 2013/2014, 2014/2015 and 2015/2016 (which is currently under processing) year books for final year undergraduates students.
- (e) Leadership training for students' leaders held at Ikogosi Warm Spring Resorts, Ekiti State.
- (f) Training and retraining of Hostel staff at local workshops/conference sponsored by the University Management
- (g) Support for Indigent Students: This was achieved through:
- Payment of School Fees/Allowances for several indigent students
  - Student empowerment through Weekend Students' Farm Work and in the University Library.

## **3.8 AGRICULTURAL MEDIA RESOURCES AND EXTENSION CENTRE (AMREC)**

### **3.8.1 Overview of AMREC**

Agricultural Media Resources and Extension Centre (AMREC) handles the extension mandate of the University. The Centre is actively involved in the training of different categories of stakeholders in agriculture through workshops, seminars, hands-on experience trainings and demonstration of new technologies that can enhance the productivity of practitioners. The Centre also fosters collaboration with *local*, national and international organisations in the field of agriculture. AMREC is poised to continue to bridge the gap between research and extension through its activities in 2017 with a view to improving the livelihoods of the rural and peri-urban people within the catchment areas of the University.



**Prof. V.I.O. Olowe**  
**Director, AMREC**

### **3.8.2 Extension and Research Outputs**

#### **3.8.2.1 Extension outputs**

- i. Training Workshop on Neglected and Under-utilized Vegetables and their Benefits in Nigeria held on April 13, 2016 at DUFARMS, FUNAAB.
- ii. Pre-Season Training Workshop tagged “Turning Production surplus to Profit” was held on May 11, 2016 at DUFARMS, FUNAAB.
- iii. Training Workshop on Organic Vegetable Production: Compost making held on August 31, 2016 on OAPTIN Skills Development Plot.
- iv. Training Workshop on Cotton Harvesting and Processing held on Dec. 29, 2016 at Iwoye Ketu, Ogun State.
- v. Participation at 7<sup>th</sup> Gateway Fair held on Mon 18, April to Mon. 2, 2016 held at MKO Trade Fair Complex, Kobape Road, Abeokuta.
- vi. Workshop on the use of Monitoring and Evaluation in Agriculture and Rural Development Projects held on May 5, 2016.
- vii. Establishment of pineapple and plantain plantations for Mr. M.A. Salawu at Ijebu-Ode on July 7, 2016 under Advisory Service Activity.

- viii. Training Workshop on Nutrition and Health Education Project for Farm Families and Rural School Teachers held on July 15, 2016 held at O.L.G Alagbede Nursery and Primary School along Alabata Road, Abeokuta.
- ix. Training on Improved Cassava Processing Techniques and Commissioning of Deep Well and Processing Shed at Ajaaka held on August 17, 2016.
- x. Livestock Improvement Project (LIP) at Elepa, Daodu and Adao Villages on Sept. 6 & 7, 2016 and Nov. 4, 2016.

### **3.8.2.2 Research outputs**

The seven AMREC Extension Fellows on-ground published twenty three (23) journal articles and six (6) refereed conference proceedings in 2016. They were also actively involved in undergraduate and graduate students' supervision in the various Departments and Colleges where they are anchored. They attended international and local conferences/workshops in 2016.

### **3.8.3 Linkages and Partnerships (On-going collaborations)**

- a. Cassava Adding Value for Africa Project Phase II (CAVA II) in with CAVA II Nigeria
- b. West Africa Agricultural Productivity Programme (WAAPP) in collaboration with Institute of Food Security Environmental Resources and Agricultural Research (IFSERAR)
- c. African Cassava Agronomy Initiative (ACAI)
- d. Arewa Cotton and Allied Products Limited (ACPAPL) & Nigeria Cotton Farmers' Association

### **3.8.4 Grants and Awards**

AMREC is actively involved in the implementation of the West Africa Agricultural Productivity Project (WAPP) and Cassava: Adding Value II Project (CAVA:II). FUNAAB through AMREC is a partner in Organic Food System Project (OFSP) and a Proposal on Food Hub is currently being put together by the Project Partners.

## **3.9 BIOTECHNOLOGY CENTRE**

### **3.9.1 Overview of the Centre**

The Centre as a training unit for global application of biotechnologies came into existence in 2000 and was located in the present specialized structure in 2009. It was established as the centralized equipment laboratory to train staff and students in the area of new technologies applicable to sciences and agricultural development and for the sustenance of human capacity building in biotechnologies. The Centre was appointed a new Director in July 2016, in person of Dr. Adewale Olusegun Obadina who took over from Prof. Olufunmilayo A. Adebambo.



**Dr. A. O. Obadina**  
**Ag. Director**

### **3.9.2 Research Output**

There is increase in the plantain plantlet generated at the Tissue Culture laboratory. The plantlets were moved to plot of land allocated to the Centre for this purpose at the Industrial Park Unit (IPU). The awareness of this technology got increased which have led to more in demand for the plantain plantlet.

All the laboratories within the Centre are involved in different research among which are:

- Tissue Culture and Plant transformation laboratory: among the crops that we work on include Plantain, Cassava, Cowpea and Tomato.
- Plant Genome Laboratory: The DNA extraction and PCR analysis are carried out. Laboratory equipment that are available includes Thermocyclers, q-PCR, Nanodrop, Electrophoresis Gel apparatus etc.
- Animal Genome Laboratory: similar work as plant genome laboratory is carried out except that they used different sample like blood, tissues and organs.
- Food Biotechnology and Analytical Laboratory equipped for HPLC, GC, ELISA for analyzing food borne pathogens microbes and toxins.
- Atomic Absorption Spectrometry Laboratory: Analyses of various elements in plants, foods, soil, water samples and other environmental pollution samples are carried out.
- Bioinformatics Laboratory: Gene alignment, Blasting, Primer designing, Protein Structural and Enzyme position determination are the major activities in this laboratory.

- Wet Laboratory: Digestion of cations as well as protein analysis from soil and plant tissue is done. The laboratory is equipped with Soxhlet apparatus, Kjedal machine etc.

### **3.9.3 Workshop and Training Programmes**

- Starting from October, the Centre organized free workshop on Biotechnology for Senior Secondary School students within the State which holds every Wednesday between 10:00 a. – 12:00 noon. The aim is to sensitize the young ones on these available technologies that could impact the life of the citizenry.
- A training program on “Basic Molecular Biology” was floated in November, 2016 at the Centre.
- Between October and November 2016, we had two (2) Visiting Scientists from Cameroon and Togo. One of the Scientist came to complete her Ph.D bench work in our Animal Genome Laboratory while the other Scientist came to improve his capacity in the field of biotechnology.

### **3.9.4 Activities in the different Laboratories**

- ❖ Plant Genome Laboratory had 250 students/researchers comprising of undergraduates and postgraduate both from within and outside the university that have used the laboratory facilities.
- ❖ Animal Genome laboratory had over 85 students/researchers that have used the facilities in the laboratory; the research work includes DNA extraction from tissues, PCR analysis using specific primers, extraction of soluble proteins from different tissues.
- ❖ Food Laboratory had about 15 students within the university that have used the facility in the laboratory.
- ❖ The Protein, Food Nutrient and Micronutrient Analytical Laboratory had over 250 students within and outside the university that have brought in their plant, soil and food samples for analysis.
- ❖ Atomic Absorption Laboratory had over 60 researchers that have used the machine for the analyses of different samples.

- ❖ At the Tissue Culture laboratory, work continues on micro propagation of crops like Plantain, Cassava and Pineapple. There are many suckers of plantain in the laboratory ready for sale to the farmers.

### **3.9.5 Linkages and Partnerships**

- The Centre signed a Memorandum of Understanding (MoU) with International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy in November, 2016.
- Collaboration with JR Biotek Foundation (USA) was established in July, 2016 in the area of training and capacity building, to facilitate knowledge and technical expertise in molecular laboratory techniques and its various beneficial applications, especially in Agriculture.

## **3.10 CENTRE FOR INTERNATIONALISATION AND PARTNERSHIPS (CENIP)**

### **3.10.1 Brief Introduction**

Centre for Internationalization and Partnerships (CENIP) was established on June 30, 2010. The Centre has established solid, mutual and worthwhile Linkages and Partnerships with national and international institutions, agencies, industries, alumni and other stakeholders with a vision to boost capacity building, curricular development as well as fund mobilization.

### **3.10.2 Projects Executed**

- Processing of application forms for 2015 Tertiary Education Trust Fund (TETFund) Conference sponsorship.
- Processing of application forms for 2014/2015 TETFund Academic Staff Training and Development programme for Ph.D, M.Sc and Ph.D Benchwork in reputable foreign and local institutions.
- Welfare of SLARI/WORLD BANK/FAO sponsored Sierra Leonean postgraduate students and foreign students from the republic of Gambia, Liberia and Sierra Leone.

### **3.10.3 Major Achievements**

Within the 2016 Academic Calendar, the Centre has aided and processed TETFund Conference Intervention Grants for Twenty-seven (27) members of Academic and Non-Teaching Staff to attend International Conferences. The Centre has also processed the placement of ten (10) Academic Staff on Ph.D, M.Sc and Ph.D Benchwork programmes to be sponsored by TETFund under the Year 2014/2015 Academic Staff Training and Development (AST&D) in highly regarded foreign and local institutions.

Currently, four (4) foreign students from the Republic of Gambia, Liberia and Sierra Leone are undergoing various undergraduate and post graduate degrees in the University. Also, fourteen (14) SLARI/WORLD BANK/FAO sponsored Sierra Leonean graduate students are currently running various programmes in the University.



## **3.11 CENTRE FOR ENTREPRENEURIAL STUDIES (CENT)**

### **3.11.1 Introduction**

The Centre for Entrepreneurial Studies (CENTS) was established to empower FUNAAB students entrepreneurially in a bid to make them productive and contribute significantly toward socio-economic and human development.

Among the major objectives of the Centre are some of the followings:

- 1) Making employers of FUNAAB graduates, thereby contributing to reduction of unemployment in Nigeria.
- 2) Creating and promoting entrepreneurial awareness and opportunities.
- 3) Enhancing the capacity of potential and practicing entrepreneurs who desire to learn practical entrepreneurial skills.



**Prof. A.O. Dipeolu**  
**Director, CENTS**

### **3.11.2 Projects Executed Within the Period**

In fulfilling the mandate given, the Centre was involved in the following:

- 1) The Centre signed a Memorandum of Understanding with S.L 2000 LIMITED on Agricultural training for young Niger Deltas
- 2) The Centre organized a training workshop on Biogas and Hydroponics in May 2016.
- 3) The Centre collaborated with Enactus Nigeria and other students based Entrepreneurship groups.
- 4) The Centre held an inaugural meeting of the Advisory Board of the Centre in June 2016.
- 5) The Centre initiated the establishment of a Business Support Unit with Atlas Professional Centre
- 6) The 2016 publicity of the activities of the Centre was done through on- line marketing strategy
- 7) The Centre visited the Entrepreneurial Centres of the Federal University of Technology, Akure (FUTA), the Polytechnic Ibadan and Rufus Giwa Polytechnic Owo to garner ideas on how the laboratory and workshop there have been equipped.
- 8) The Centre initiated a committee to jumpstart the establishment of Abeokuta Business school

9) The Centre also mounted its training programmes in Skill Acquisition in the following vocations for both our students and people from outside the University with the following participants:

S/N	Skills/Vocations	Number of trainees
1	Catering & Hotel Management	7
2	Fashion Designing	14
3	Fish and Fingerling Production	1
4	Event Planning	2
5	Floriculture	1
6	Shoe Making	3
7	CCTV Installation	1
8	Make- up	1
Total		<b>30</b>

The training took place from December 2016 to February 2017 both within and outside the University system. The students will be graduating in March 2017.

### **3.11.3 Major Achievements**

One of the major achievements recorded by the Centre is the maiden meeting of the Advisory Board held in July, 2016.

The visit of some members of the Centre to FUTA, the Polytechnic Ibadan and Rufus Giwa Polytechnic Owo has re- positioned the Centre on how the NUC directed that the Centre should run.

The collaboration with Atlas Professional Centre for the establishment of a Business support unit of the Centre has enabled prospective clients within and outside the University community to register their companies.

Members of staff of the Institute of International Tropical Agriculture (IITA) came to the University to introduce the Empowering Novel Agri- Business Led Employment (ENABLE) programme. The Director of the Centre and Director of COBFAS were in attendance as stakeholders.

The training programmes mounted in 2016 have empowered participants to become entrepreneurs.

## **3.12 CENTRE FOR INNOVATION AND STRATEGY IN LEARNING AND TEACHING (CISLT)**

### **3.12.1 Brief Introduction**

The Centre for Innovation and Strategy in Learning and Teaching (CISLT) was established by Senate at its 199<sup>th</sup> statutory meeting held on Friday, 4th April, 2014 to widen the scope of the then Webometrics Centre under the Office of the Vice-Chancellor with the following objectives:

- i. To provide systematic planning, monitoring and evaluation that would sustain and improve on the standard of teaching, learning, research and extension services in the University.
- ii. To enable, promote and investigate the integration of learning technologies in teaching and learning.
- iii. To promote, develop and evaluate pedagogically effective, innovative and transformative uses of ICT's for teaching and learning in the University.



**Prof. Olusegun Folorunso  
Director, CISLT**

### **3.12.2 Major Activities/Collaborations**

1. Publishing Teaching and Learning Tips to the University Community to sensitize them on various updates and opportunities on Teaching and Learning on our website and how to improve quality of teaching and learning activities and services in meeting standards.
2. Developments and Maintenance of University website
  - Updating Staff profile on the website
  - Preparation for Webometrics ranking of world universities
  - Visitation to Colleges and Centre in order to source for information in preparation for Webometrics ranking of world universities.
  - Collation of 2015 Abstracts of staff publications
3. Sending of weekly FUNAAB Bulletin through e-mails to University Community, friend of the University etc, and publishing the bulletin on the web.

4. Working with FUNAAB Journals Office and Editor-in-Chief in ensuring that processing of FUNAAB journals are automated. Also, in sending of Galley Proof to Authors.
5. The Centre organized the following workshops.
  - (i) A-2day Capacity Building Workshop on Modern Methods of Teaching and Learning in Higher Education for Academic Staff within the cadre of Assistant Lecturer and Lecturer I held between 25<sup>th</sup> and 26<sup>th</sup> January 2016 (for Junior Academics). The presentations, topics and resource persons used are listed in the table below.

S/N	TOPICS	RESOURCES PERSONS
1	Mentoring	Professor O.A. Enikuomehin - Deputy Vice-Chancellor (Development)
2	A Missing link in the University Education Culture	Professor Y. Akegbejo-Samsons – Dean Student Affairs.
3	Innovative Methods of Teaching and Learning in Higher Education	Dr. O. Folorunso, Director CISLT
4	Learning with Technology using Facebook	Dr. Abayomi-Alli, A
5	Introduction to Nota Bene (NB)	Dr. Abayomi –Alli, A

- (ii) A-day workshop of Building Academic Leadership Capacity for Higher Education in the 21<sup>st</sup> Century for Academic Staff within the cadre of Senior Lecturer and Professorial Cadre on 21<sup>st</sup> June, 2016 (for Senior Academics). The presentations, topics and resource persons used are listed in the table below.

S/N	TOPICS	RESOURCES PERSONS
1	Building Academic Leadership Capacity for Higher Education in the 21 <sup>st</sup> Century	Prof. Kayode Oyesiku – Pioneer Vice-Chancellor, TASUED
2	Increasing Academic Content Visibility through <b>Blogs</b>	Prof. A.T. Akinwale – Department of Computer Science, FUNAAB

3	Internationalization and Academic Networking using <b>Skype</b> Technology	Prof. A.T. Akinwale – Department of Computer Science, FUNAAB
4	Reflections on University Management System	Prof. I.C. Eromosele – Former DVC (Academic), FUNAAB

### 3.12.3 Achievements

The Centre attracted and hosted Ph.D Research student from Rhodes University, Grahantown, South-Africa for Research Collaboration between May and August 2016. His research focused on developing a framework for the integration of personally-owned ICTs for teaching and learning in resource-constrained higher education environments.

### **3.13 DIRECTORATE OF INTERNAL AUDIT**

Directorate of Internal Audit from the institutional point of view serves as a self assessing mechanism of the Management. It compares the current application of processes to a standard and suggests how to achieve the ideal.

The Directorate carries out independent, objective assurance and consulting activities designed to add value and improved the University's operation. Internal Audit is part of management tools use in helping the University accomplish its objectives by bringing in systematic approach to evaluate and improve the effectiveness of risk management and corporate governance processes.

The Directorate Review the established systems to ensure compliance with the policies, plans, procedures, extant rules, financial Regulation etc which could have significant impact on the operations and also ensure compliances with the University rules and regulations.

The Directorate ensures the safeguarding of assets by verifying the existence of such asset. It appraises the economy and efficiency with which resources are deployed through the Price Intelligence Monitoring Unit.

#### **3.13.1 Project Executed/Major Achievements**

During the year under review, the Directorate has improved in the use of risk assessment thus aligning her activities with broader institutional goals by deploying her own scarce Audit resources. Her focus has shifted to risk prevention and promoting positive change in the University.

Some of the Achievements are as highlighted below:

1. The micro electronic Audit of the financial activities of CEADESE was successful carried out.
2. Audit of C'AVA II financial Activities in the six partner Countries of C'AVA namely Nigeria, Ghana, Uganda, Malawi, Tanzania and the University of Greenwich United Kingdom was successfully done.
3. The University sponsors staff to selected conferences during the year. This is aimed at refreshing staff knowledge and Technical competence in line with the management's efforts to put the Department in a good position to measure up with global standards. A staff of the

Directorate was also sponsored under the pearl project to participate in training programmes in Tanzania in 2016.

4. The Ag. Head of Internal Audit was conferred with the Fellowship Award of the prestigious Institute of Chartered Accountants of Nigeria in 2015 while the Deputy Director was also conferred with the same Fellowship Award of ICAN in 2016. Two of our Auditors also qualified as Certified National Accountants during the year.
5. Through the efforts of the Price Intelligence and Monitoring unit, the directorate was able to save for the University significant amount through the adjustment of price estimates of goods and services to reflect the current market prices. This ensured financial prudence and prevents loss of scarce financial resources.
6. The Directorate ensured that approved purchase that meet the best standard and services of acceptable quality are carried out consequently reducing wastages and promoting accountability by ensuring prompt retirement of Cash Advances released to staff members to execute one assignment or the other.
7. The Cost and Investment centers were closely monitored to ensure judicious use of scarce resources of the University by reporting areas where losses are perpetually recorded.
8. The Directorate ensured that Internal controls that exist in Colleges and Service centres are strengthen resulting in greater productivity and service delivery.
9. Reports on Treasury activities of the Bursary were compiled and submitted to the Management on quarterly basis.
10. The Vice-Chancellor has since approved the contract for implementation of Internal Audit Computerization. The computerization started but was stopped abruptly due to the industrial action embarked upon by Senior Staff Association of Nigerian University last year. The completion will improve performance and efficiency of the staff of directorate immensely.

The Directorate of Internal Audit orientation has moved away from evaluating individual process controls toward improving corporate framework, corporate governance and thus enhancing ethical climate within the University in order to achieve our World Class status objective.

### 3.14 DIRECTORATE OF GRANTS MANAGEMENT (DGM)

#### 3.14.1 Introduction

The Directorate of Grants Management (DGM) was established to serve its stakeholders and increase FUNAAB's research and development (R&D) financial stability as well as impact by making its success more visible and sustaining a path of improvement, through grants sourcing, processing/ negotiations of grants contracts and administration of research funds and projects.



**Prof. K. Adebayo**  
Director, DGM

#### 3.14.2 PROJECTS EXECUTED BY DGM IN 2016

##### Active Externally Fund Research Projects as brought forward from 2015

Title	Funding Agency	Partners	Countries Covered	Start Date	End Date	Total Budget	Principal Investigator
Improving the livelihoods of small scale farmers through access to Growth Markets (Cassava Growth Markets)	European Union	Greenwich University, UK and 6 other institutions	Nigeria, Malawi, Tanzania, Uganda, Ghana, India	June 2012	March 2017	€3.21m	Prof. L.O. Sanni
Sustainable Weed Management Technologies for Cassava Systems in Nigeria	International Institute of Tropical Agriculture (IITA), Nigeria	IITA, Ibadan	Nigeria	Jan 2014	Nov 2018	\$542,553	Prof. S.T.O. Lagoke
Cassava: Adding Value for Africa Phase II (CAVA II)	Bill & Melinda Gates Foundation, USA	IITA, Nigeria; NRI, United Kingdom, CSIR-FRI, Ghana; TFNC, Tanzania; Afrll, Uganda; Chancellor college, University of Malawi	Nigeria, Malawi, Tanzania, Uganda, Ghana, United kingdom	Feb 2014	Mar 2019	\$18.8m	Prof. K. Adebayo



### Active Externally Funded Research Projects initiated in 2016

Title	Funding Agency	Partner	Countries covered	Start date	End date	Total budget	Principal Investigator
Incentivising Adoption of Climate- Smart Practices in Cereals Production In Nigeria- ECOWAS Raaf Pasanao	ECOWAS	AFD	ECOWAS countries	Oct 2016	Oct 2017	€118,956	Prof. A.M. Shittu

### 3.14.4 MAJOR ACHIEVEMENTS

#### DGM's Major Achievement in 2016

Activity	Remarks	Target Audience
PROFESSORIAL RETREAT- specially conveyed sessions for grants winning professors and post-graduate mentoring	12 <sup>th</sup> -13 <sup>th</sup> July, 2016, Theme Grant-Winning Professors & Strategic Post-graduate Mentoring	Deans, Deputy Deans, HOD's and PG coordinators

#### Proposed Allocation of TETFund and FUNAAB Grants in 2016

Name of Principal Investigator	Title of the Proposal	Proposed Budget (Naira)
Dr. J.O. Azeez	Evaluation of heavy metal extractive ability of some indigenous plant species in Abeokuta	1,479,500
Prof. C.A. Onifade	Effects of violence against women on the welfare of women and children in Ogun and Kwara state, Nigeria.	1,500,000
Dr. A.O. Oso	Application of innovative technologies in the nutritional enrichment of cassava products and maize equivalent in pig nutrition	1,500,000
Dr. A.O. Oni	Supplementation of cassava peels with cassava leaves and maize cobs from west African dwarf goats	1,500,000
Dr. A.O. Lala	Effect of L-arginine on production performance of guinea fowls	1,499,000
Dr. M. Wheto	Insulin-like growth factor I in chain polymorphism and its effect on	1,489,750

	reproductive performance of improved Nigeria indigenous	
Dr. M.A. Adeleke	Identification and sequence analysis of toll-like receptor genes in association with heamo-protozoan parasite load in improved Nigerian indigenous chickens	1,499,858
Dr. A.S. Adenaike	Comparative evaluation of immune response of Nigerian locally adapted and exotic turkeys to sheep red blood antibodies	1,498,840
Prof. T.O.A. Banmeke	Potentials of disseminating fishery information to artisanal fishermen through SMS in coastal southwest Nigeria	1,472,000
Dr. O.E. Oke	Effect of assess to different legume pastures and its biomass intake on performance and welfare of broilers at different seasons	1,470,000
Dr. O.A. Adebambo	Genomics of salmonella tolerance in the Nigerian local chicken	1,41,670

### **3.15 DIRECTORATE OF PHYSICAL PLANNING (DPP)**

The Directorate of Physical Planning, FUNAAB is under the Vice Chancellor's office consisting of staff from various environmental disciplines. It is charged with the responsibility of the overall Physical Development and space Management of the University in accordance with the Master Plan.



**Arc. B. Anasanwo**  
**Ag. Director, DPP**

#### **MAJOR ACHIEVEMENTS FOR 2015/2016**

- 1 Construction of Car Park, Walkways and Drainage Network for Science Laboratory and 1000 Capacity Lecture Theatre.
- 2 Construction of Female Hostel - Block A (Arid Builders)
- 3 Construction of 250 Seater Computer Laboratory
- 4 Construction of College of Food Science and Human Ecology (COLFHEC) Phase II
- 5 Construction of office for Science Laboratory Building
- 6 Construction of Car Park Walk ways for Entrepreneurship Centre
- 7 Supply and Installation of Furniture and Fittings for 250 Capacity Chemistry Laboratory
- 8 Supply and Installation of Furniture and Fittings for 250 Capacity Biology Laboratory
- 9 Supply and Installation of Furniture and Fittings for 250 Capacity Physics Laboratory
- 10 Supply and Installation of Furniture and Fittings for Entrepreneurship Building
- 11 Supply and Installation of Furniture and Fittings to the 1000 Capacity Lecture Theatre Building.
- 12 Participation in University Committee assignments that are compatible to Physical Development and Space Management such as:
  - (a) Budget Committee
  - (b) Ceremonial Committee
  - (c) University Central Project Monitoring Committee
  - (d) Special Committee on Dams and Water Projects
  - (e) Committee on Rehabilitation of the 3Hectares Fish Reservoir
  - (f) Procurement Planning Committee and Tenders Board
  - (g) University Sports Committee
  - (h) Council Committees

## **3.16 DIRECTORATE OF SPORTS**

### **3.16.1 Introduction**

The Directorate of Sports emanated from Sports Unit then under the Student Affairs Division on January 28, 1988. Since its inception, the following have headed, Mr. K. A. Ladipo (Pioneer staff, 1988-2007), Late Mr. V.O. Oshuntolu 2007-2011 and the unit was upgraded to Directorate with Pioneer Director Mr. V.A. Oluwatoki (2011-2016) and currently Dr. S.O. Olabanji was appointed Acting Director September 2016 till date.



**Dr. Samuel O. Olabanji , FCPM**  
Ag. Director, Sports

The Mandate of the Directorate is to provide students and staff with opportunity to participate in a variety of competitive and recreational sports, play and games and has four cardinal focuses which include.

- Intral-Mural/Club Sports
- Life Plus and Wellness
- Community Sports and Recreation Outreach
- Extramural/Elite Sports.

### **3.16.2 Projects Executed within the Period**

In the year 2016, the FUNAAB Directorate of Sports had the following as some of her activities and events. Students Intramurals/Club Sports

- Staff Intramural/Staff Sports Club
- Wellness and Life Plus Programmes

### **3.16.3 Student Intra-Murals**

- a) The Directorate of Sports as part of her mandate partook in the University orientation lecture for the fresh students during the orientation week.
- b) Provided a forum for fresh student athletes to exhibit their potential skills in their various sports and games for onward grooming into the existing University teams.

- c) Attended bi-lateral Athletics competition on invitation by Centre for Degree Programme (CEDEP) at Federal College of Education, Osiele Abeokuta and won goal medal in Men's 4 x 100m relay race.
- d) Collaborated with Students Union to successfully organize the annual Students Union Government (SUG) Football Competition among all the existing Departments in all the ten Colleges in the University.
- e) Offered clinical services in the area of Wellness and Life Plus which include exercise prescription, massaging, nutrition and exercise therapy to individual staff and students every Tuesdays and Thursdays except during public holidays.
- f) Organized and coordinated Marksman Students Scrabble and Chess Championship among FUNAAB Students.
- g) Supervised and coordinated over one hundred sporting activities; Inter Colleges, Inter-Departmental, Inter-Units, Inter-Levels, Inter-Halls, Inter-Association, Inter-Clubs and Societies Students-based competitions cut across the various sports and games.
- h) The Directorate organized Talent Hunt in various sports for students especially in Table tennis, Squash, Volleyball, Tennis, Badminton, Soccer, handball among others.

#### **3.16.4 Staff Intra-Murals**

- a) Organized and provided needed technical assistance to Staff Sports Club activities especially in Soccer, table tennis, Volleyball, badminton, squash, chess and tennis among others.
- b) Organized and supervised the weekly aerobic and keep fit programme for interested staff.
- c) The University Staff Tennis team participated in Tripodal Tennis Tournament jointly organized by her neighbouring institutions in a rotational order by FUNAAB, Ogun- Oshun and FCE, Osiele.
- d) The FUNAAB Staff soccer team had several friendly matches for exposure and strength test; All Stars International Ogun State branch.

### **3.16.5 Wellness and Life Plus Programmes**

- (a) Organised fitness Assessment and Exercise prescription for interested Staff and Students as well as Introduction and medical assessment form to staff and students prior to exercise prescriptions and Life Plus activities.
- (b) Organised Total Man Concept approach to the assessment of the physical fitness, addressing the five components of total physical fitness; cardio-respiratory endurance, muscular fitness, body weight and composition, flexibility and neuromuscular relaxation.
- (c) Organised exercise regimen (wellness focus) for staff and students in combating hypo kinetic disease (on appointment) every Wednesdays morning between 7am-10am.
- (d) Established Staff Aerobic Dance Club and organized Aerobic Exercise programme every Thursdays between 4.30pm-6pm.
- (e) Established FUNAAB Student Dance Troupe and organized Dance Rehearsals every Tuesdays and Fridays except on public holidays.

### **3.16.6 MAJOR ACHIEVEMENTS**

#### **3.16.6.1 Inter-Collegiate Sports**

The Directorate successfully organized the Annual Inter-Collegiate Sports Championship/Vice-Chancellor's Cup Competition among the ten (10) existing Colleges and Institute for Human Resources Development in the University. The College of Animal Science and Livestock Production (COLANIM) came first overall with 10 gold, 7 silver and 9 bronze medals followed by Institute of Human Resources Development (INHURD) 8 gold, 5 silver and 5 bronze medals and 3<sup>rd</sup> position went to College of Plant Science and Crop Production (COLPLANT) with 7 gold, 10 silver, and 10 bronze medals.

The Directorate honoured a bilateral Sports invitation Relay race organized by Centre for Degree Programmes of Federal College of Education Osiele, Abeokuta where FUNAAB Men's Relay team came first (1<sup>st</sup>) position.

The University Squash team participated in Adekunle Adebisi Sports Foundation (Squash Racket Festival) at Ibadan Recreation Club, Adamasingba, Ibadan.

The University Men's soccer team (students) outshined her counterpart All Stars of Ogun State comprising Ex – International Soccer Players at Muda Lawal Stadium, Asero with 5-2 win.

University Cricket team (Men) flex muscle's with Ogun State festival cricket team in one of her friendlies in preparation for NUGA games.

### 3.16.7 PHOTO GALLERY OF SPORTS ACTIVITIES OF THE DIRECTORATE







**HANDBALL**



**VOLLEYBALL**



**BASKETBALL**

**TENNIS**



### 3.17 DIRECTORATE OF UNIVERSITY FARMS (DUFARMS)

#### 3.17.1 Brief Introduction

The Directorate of University Farms (DUFARMS) has achieved another remarkable year in operationalizing its four mandate along Commercial, Innovation, Teaching and Research. It was very challenging yet productive for the Directorate. We have remained committed to the core values of pursuing excellence, embracing change acting with integrity and service to the University. There were high level of activities in all units of the Directorate Year 2016 was indeed year of idea whose time has come.



**Mr. M.A. Jaiyeola**

Ag. Director and Deputy Director  
(Commercial and Innovation)

#### 3.17.2 UNIVERSITY FARMS

##### 3.17.2.1 Funaab Model Integrated Farm (FMIF)

The 2016 farm year was initiated with the transplanting of yam seedlings cultivated from seed yams. These yam seedlings were planted in heaps during the early hammatan season. In preparation for farming land preparation for planting of different types of vegetables and fruits was carried out as well as the expansion of the plantain orchard, cucumber, tomatoes and sweet corn was also planted in the course of the year.

S/N	Crops cultivated	Land Area Cultivated	Revenue Generated ₦
1	Plantain	7.0 hectares	954,845.00
2	Vegetable	2.0 hectares	204,805.00
3	Yam	2.0 hectares	234,670.00
4	Sweet Corn	0.5 hectare	43,350.00

5	Pawpaw	1.5 hectares	147,390.00
6	Cucumber	1 hectare	293,710.00
7	Water Melon	0.5 hectare	70,350.00
8	Tomatoes	0.5 hectare	30,950.00
	<b>Total</b>	<b>14.5 hectares</b>	<b>1,980.070.00</b>

### 3.17.2.2 Farm Production

Fish is adjudged the cheapest and most affordable source of animal protein. Aquaculture has the potential of producing large quantities of lower cost protein rich food and this has been done in many parts of the orient.

*The table below summarizes the record of production for each year*

S/N	Year of Production	Production Status	Stocking rate	No. of Production pond	Amount Release (₦)	Amount Generated	Completion status
1	2015	Fresh Fish production	5,000	2	1,308,1000	1,302,250	Completed
2	2016	Smoked and fresh fish	14,000	8	1,736,713		On-going

**The following are the routine management:**

- 1 There is constant maintenance of the pond structure
- 2 Weeding of the pond surrounding and area
- 3 Constant checking of the water quality to prevent pollution
- 4 Daily feeding of the stock
- 5 Regular observation of the water inlet and outlet.

### 3.17.3 TREE CROP PLANTATIONS

#### 3.17.3.1 Introduction

Established in 2008 the unit has developed plantations of oil-palm, Teak and plantain over the years, some of which has started yielding returns. The commitment in 2016 has been out maintain the plantations in productive state as more of the fields established in different years are becoming mature (fruiting). Production of Palm-oil from the harvested fruit was also important aspect of our activities. The working team in the unit this season consists of 3 senior staff, 5 junior staff, 7 regular casual and 25 annual contract staff.

#### 3.17.3.2 Oil-Palm Plantation

Maintenance of 73 ha of oil-palm plantation continued this season with regular slashing, ring weeding, fertilizer application and periodic pruning of the lower dry fonds.

Epiphytes trying to develop on the trunk were also regularly removed. Replacement of missing stand in portion of the field where cattle rearers ravaged was also carried out.

Periodic harvesting from the matured area of the plantation was equally carried out and the fruits were moved from the plantation to the main campus where we have the processing bay. The yield recorded from the field 206 (January – November) are as indicated in the table 1 below. The adult palm along the FUNAAB fence was also part of our responsibility as we maintain the trees regularly harvest its fruits for processing. The yield from that stretch of palms is also indicated on the table 1 as Gate.

MONTH	BUNCHES	WEIGHT (KG)	OIL (LTS)	BUNCHES	WEIGHT	OIL	TOTAL OIL PRODUCTION	SALES VALUE (N)	OIL SENT TO AGRO- MART (LTS)
January	156	2,373	370	178	1,090	135.0	505.0	-	-
February	197	3,218	470	468	2,515	300.0	770.0	41,600.00	183.0
March	258	4,999	745	822	4,233	5592.5	1,317.5	332,900.00	1,210.0
April	405	5,004	765	128	753	265.0	1,030.0	312,600.00	11,22.0
May	144	1,778	290	547	4,504	1,072.5	1,362.5	384,000.00	1,384.0
June	153	2,111	230	634	2,859	610	840.0	257,500.00	942.5

July	74	836	110	768	2,849	502.5	612.5	91,200.00	300.0
August	164	1,942	335	329	1,683	150	485.0	519,500.00	1,450.0
September	66	792	85	586	2,319	211	296.0	190,200.00	540.0
October	143	1,758	211	540	2,009	275	486.0	180,000.00	375.0
November	23	592	60	71	260	30	90.0	132,000.00	275.0
<b>TOTAL</b>	<b>1,787</b>	<b>25,403</b>	<b>3,671.0 Litres</b>	<b>5,071</b>	<b>25,034</b>	<b>4,123.5 litres</b>	<b>7,794.5 litres</b>	<b>2,441,500</b>	<b>7,781.5</b>
<b>CLOSING STOCK – JANUARY 2016 OIL SALES = 198 + 13 = 211 LITRES</b>									

### 3.17.3.3 Palm-Oil Production

From the fruit bunches brought in our staff at the processing section produces palm-oil, extracts the palm kernel and other extraneous materials. The palm-oil produced are packaged and delivered to the Agro mart unit for sale. The production for the period under consideration is as indicated in the table below. For the period a total of 7,794.5lts of oil was produced form 50.47tons of harvest bunches.

The palm kernel accumulated since last year (3.67tons) was sold to produce buyer since we have not succeed in getting approval for the purchase of palm kernel cracker and other machine that is needed for further processing.

Some members of the university community who were interested in getting fresh palm fruits for their local dishes were also oblige as we had to sell some to them at (₦50/Kg) at economic rates. Incomes made from these sources are indicated on the income table presented in this report. The market value of palm-oil increased towards the end of the year such that we had to change the price of ₦280/Lt (we started with in January) to ₦350 in August and ₦480/Lt in September.

### 3.17.3.4 Broom Production

Palm fronds that are pruned in the process of harvesting and caring for the palm tree are also converted into brooms. Each kitted bunch is sold for ₦200. 200 units was produced out of which 127 units have been sold at the time of this report.

### 3.17.3.5 Students Industrial Training

A number of students from FUNAAB (Food Science students) and few from other institutions attended their students work experience in the processing section of our unit. They were taken through the processes involved in palm-oil production and they were also made to participate in the activities during their stay. There was also a foreign student Ms Fon Grace Ngweruform from National Polytechnic, Bamenda, Cameroon who was also avail this opportunity.

### 3.17.3.6 Plantain Plantation

The activities on plantain farm involves re-establishing old and unproductive field in new areas because the yield from Raton crops are no longer economical. Usually this is due to multiplication/infestation of nematode as well as diminishes nutrient profile at the soil. Presently we have 2ha behind Agro mart at the Campus, 2ha at the IFSERAR Junction, and 3 Ha at Agbora village along the road to the plantation village.

Table 2 shows the number of bunches, weight, value and the rate for the harvest on a monthly basis. More harvest is expected in the month of December which is not captured in this report.

#### Plantain Record

Month	Bunch	Weight (Kg)	Amount (N)	
January	63	266.0	18,620.00	70
February	31	123.0	7,490.00	60
March	119	380.1	33,590.00	
April	-	-	-	-
May	18	52.5	5,250.00	100
June	25	79.9	6,420.00	80
July	-	-	-	-
August	41	156.0	15,600.00	100
September	245	5275.1	98,450.00	80/100
October	112	503	50,300.00	100

November	177	1,056.5	101,365.00	90/100
December	-	-	-	-
<b>Total</b>	<b>831</b>	<b>10,286.4</b>	<b>337,085</b>	

### **3.17.3.7 Teak Plantation**

The Teak plantation established as perimeter fence for the FUNAAB boundary along Alabata road is still thriving though largely neglected due to lack of mobility and labour shortage in the unit.

Four stands were however felled by a postgraduate student of forestry who is conducting a research project on farm at an agreed price of ₦2,000/Tree. The amount was paid into the revenue of the unit.

There is need to engaged of forest guard to patrol the area as some of the trees are matured for pole.

### **3.17.3.8 Invasion of farm land by Fulani Cattle rearers**

Serious incidence of confrontation with cattle rearers occur this year as we noticed more activities of the Fulani rearer on the plantation.

On two different occasions some of their cattle were apprehended by our farm guard which was reported at the Obantoko Police Station on the advice of the Chief Security Officer. Compensation for crop destroyed were made by tow of the parties concern in the amount of ₦120,000 and ₦100,000 while a cow remain in our custody till date because the owner did not show up since the cow was apprehended. It is important to report that the terrain of our plantation is becoming dangerous and difficult with the increasing population of cattle rearer.

### 3.17.3.9 Finance

The income profile and the expenditure are contained below:

Expenditure -	Tree Crop Plantations	N
Labour cost		3,750,000.00
Purchasing seed		191,000.00
Maintenance of motorcycle		85,000.00
Farm Tool		97,000.00
Packing material/sticker		281,400.00
Farm jeep		4,000.00
Stationery		6,780.00
		<u>4,415,680.00</u>

### 3.17.3.10 CASHEW PLNTATION UNIT

Weeding clearing within the plantation was carried out in December, 2015 through January, 2016. Harvesting/picking of cashew nuts from the plantation started in February, 2016 through last week in May, 2016. The nut collected was processed by drying and picking the bad ones was carried out.

A total of 3,363kg cashew nuts were harvested/picked (February to May, 2016). After processing and sun-drying, a total of 2,866kg was suitable for sales, 2,866kg was sold for ₦716,500.00 at ₦250/kg in June, 2016.

**Breakdown of revenue from cashew from 2014 to 2016 is as follows:**

2014 -	N226,640.00	}	
2015 -	N811,740.00		10,123kg at 60,80,100
2016 -	N716,500.00		3,363kg at N250/kg



### **3.17.4 ARABLE/SEED PRODUCTION UNIT**

#### **3.17.4.1 Introduction**

The arable/seed production unit of the Directorate is saddled with the production of crops like maize, rice and other sundry crops. The report of activities carried out during the period under review is as follows:

#### **3.17.4.2 Land preparation**

Activities on the farm started this year with manual and mechanical preparation of land before planting of crops. First and second ploughing of land using tractor and implements were first done before planting.

#### **3.17.4.3 Cropping Activities**

Planting of maize commenced at the onset of the rainy season. A total of 42 hectares of land were cultivated and planted with the crop, it was thereafter maintained, harvested and sold green.

#### **3.17.4.4 Maintenance of Existing Field**

Slashing and weeding through the entire 0.5ha of pineapple orchard and 1 hectare of plantain/banana plantation were done during the period under review. Harvesting and selling the products were carried out as at when due on a regular basis.

#### **3.17.4.5 Revenue generated:**

Ofada rice	-	294,000.00
Plantain/banana	-	37,900.00
Plantain/banana suckers	-	13,000.00
Pineapple	-	50,675.00
Cassava	-	28,600.00
Maize	-	<u>1,446,700.00</u>
	=	<b><u>₦1,870,875.00</u></b>

### 3.17.5 NURSERY AND HORTICULTURAL UNIT

DUFARM nursery and horticultural unit commenced full operation in September, 2015. It's set up with a mandate to raise different type of seedlings for our farms and more importantly for commercial purpose.

Different crop seedlings have been raised so far they include:

- (i) Pawpaw seedling
- (ii) Oil palm seedling
- (iii)Cashew nut seedling
- (iv) Citrus seedling (next stock for buddy)
- (v) Moringa seedling
- (vi)Mango seedling.

The unit also engage in the raising of different type of vegetables such as pupkin , ewedu, carrot, pepper and other assorted vegetables.

#### 3.17.5.1 Breakdown of various seedlings raised and marketed during the period under review

S/NO.	ITEM	QUANTITY	RATE	AMOUNT (₦)
1.	Oil palm seedling	875	250	218,750.00
2.	Pawpaw seedling	1276	200	255,200.00
3.	Cashew nut seedling	185	150	27,750.00
4.	Moringa seedling	10	100	1,000.00
5.	Cocoa seedling	10	150	1,500.00
6.	Plantain seedling	260	100	2,600.00
				<b>₦506,800.00</b>

#### 3.17.5.2 Vegetable sales

1.	Ugwu (pupkin)	-	17,500.00
2.	Gboro	-	1,100.00
3.	Carrot	-	400.00
4.	Tomatoes	-	400.00
5.	Ewedu	-	1,700.00
6.	Okro	-	4,900.00
			<b><u>₦26,000.00</u></b>

### **3.17.5.3 Items in the Nursery/Field**

Considering the fact that nursery is a continuous field operation, the unit is in continuous establishment of beds for various vegetable raising and seedling production, such items in the nursery stage includes:

- (i) Plantain suckers
- (ii) Tomatoes seedlings
- (iii)Cashew nut seedling
- (iv)Oil palm seedling
- (v) Cocoa seedling
- (vi)Ugwu vegetables
- (vii) Garden eggs
- (viii) Moringa seedling
- (ix)Citrus seedling
- (x) Mango seedling.

Apart from the above items, the unit is at the moment involved in carrying out land preparation towards raising more biannual and perennial crop seedlings at the same time also engaging in vegetable production to meet the growing demand especially in the dry season.

### **3.17.5.4 Conclusion**

The unit intends expanding on its operations by introducing other crops and at the same time also increases the sizeable area of each of the other crops presently on the field.

### **3.17.6 PINEAPPLE VENTURES UNIT**

#### **3.17.6.1 Introduction**

Pineapples are scientifically known as *Ananas Comosus* and they belong to the family of Bromeliaceae of the genus *Ananas*. Pineapple plant first originated from Paraguay in South America, its growth and cultivation has spread throughout South America, the tropical countries of West Indies and other parts of the World.

Naturally, Pineapples are tropical, perennial, drought tolerant plants that grow up-to 4-6 feet in height and spreads around about 3-4 feet. Its pulp is juicy, natural and fleshy with a stem serving as a supporting fibrous core. Pineapples are excellent source of anti-oxidants and vitamin C which is required for the collagen synthesis in the body that maintains the integrity of blood vessels, skins, organs and bones. Pineapple also contains vitamin A and is rich in other minerals such as manganese, calcium, potassium, fibre and it is also very low in fat.

In addition, pineapple also has medicinal values and the consumption of pineapple will ensure good health and long life.

#### **3.17.6.2 Cropping Activities/Routine Management**

The pineapple plantation was established in the year 2014 on a land mass of about 15 hectares with a spacing of 0.5m by 0.5m and the specie of pineapple that was cultivated is smooth cayenne.

During the year under review, various maintenance practices were carried out such as: weeding, spraying of insecticides and boosting of the pineapple plants to ensure maximum productivity. Bamboo fencing was also done to prevent cattle invasion and theft. The pineapple plants began to reach maturity in January and kicked off fully in April 2016, harvesting and sales of the pineapple fruits began immediately.

### 3.17.6.3 Income Generated

The total income generated so far from the pineapple ventures from January to November, 2016 amounts to the sum of One million four hundred and forty seven thousand five hundred and sixty five naira (**₦1,447,565**). Below is a table chart showing the breakdown of amount generated monthly.

<b>MONTH</b>	<b>AMOUNT (₦)</b>
January	450
February	500
March	2,110
April	99,290
May	245,720
June	82,560
July	260,010
August	492,885
September	29,130
October	800
November	234,110
<b>TOTAL</b>	<b>1,447,565</b>

### **3.17.7      MARKETING UNIT**

#### **3.17.7.1      Introduction**

This unit was constituted by the Directorate in the last quarter of 2014, with the aim of centralizing all the activities involving marketing and all sales of the farm produces and to checkmate and prevent wastages of produce on the farms. Consequently, all farm produce are being assembled together in a site within the core centre of the university, thereby making farm produce available to all members of staff of the university staff, students, market women and all and sundry to have easy access to purchase all farm produce at farm gate price. Agro-mart unit is situated in-between the SSANU shopping complex and the university commercial garage.

#### **3.17.7.2      Activities**

Activities in the unit in the reporting period included sales of farm produce remission and reconciliation of the money generated into University IGR account. The produce available for sales included yam, maize (fresh and dried), ofada rice, assorted vegetables, plantain, banana, water melon, pawpaw, cucumber, pineapple, palm oil, snail, tomatoes, cassava, egg, chicken, cashew nut etc. All these produce are from different unit such as arable, tree crop production, poultry commercial, Nursery, seed multiplication, snailry and FUNAAB Model farm under the Directorate of University Farms.

#### **3.17.7.3      Some produce displayed at the Marketing Unit**



Cashew nuts



Pineapple



Yam tubers

Palm oil



Plantain bunches

Brooms

### 3.17.7.4 Routine Management

The unit is headed by a Marketing officer together with the involvement of an accountant and farm attendants, where sales of different produce is carried out, record keeping and reconciliation

### 3.17.7.5 Achievements

The breakdown of cash remitted from Marketing unit from January to November 2016 presented in the table below

#### **BREAKDOWN OF CASH GENERATED FROM JANUARY – NOVEMBER 2016**

<b>UNIT</b>	<b>ITEM SOLD</b>	<b>JANUARY – NOVEMBER</b>
		<b>₦</b>
	Plantain / Banana	37,700.00

<b>Arable crops</b>	Plantain sucker	13,000.00
	Maize	2,221,500.00
	Cassava	28,600.00
	Pineapple	50,675.00
<b>Tree Crop Production</b>	Maize	82,450.00
	Palm oil	2,530,400.00
	Plantain	267,415.00
	Plantain flour	18,900.00
	Brooms and vegetables	27,300.00
	Water melon	230,490.00
	Tomatoes	100,000.00
	Palm kernel	112,050.00
	Felling of trees	8,000.00
<b>Livestock</b>	Eggs	3,207,470.00
	Broilers	875,200.00
	Fish	269,250.00
<b>Feed mill</b>		119,840.00
<b>Marketing Unit</b>		19,240.00
<b>Nursery seedling</b>	<b>Integrated</b>	84,750.00
		212,450.00
<b>FMIF</b>	Plantain/Banana	614,995.00
	Vegetable/Okro	204,805.00
	Water yam/yam	243,670.00
	Dry plantain/tomatoes	30,950.00
	Water melon	70,350.00
	Maize/sweet corn	43,350.00
	Pawpaw	147,390.00
	Cucumber	293,710.00
	Pineapple	1,447,555.00
	Ofada Rice	294,000.00
	Maize	1,446,700.00
<b>Total</b>		<b>₦15,354,155.00</b>



### **3.17.8 BROILER UNIT**

#### **3.17.8.1 Sourcing of Birds**

The main source of the broiler day-old chicks was from NUBREED hatchery Kobape, Abeokuta. The birds were raised to the point of sales, mostly targeting the festive period due to the high demands for chickens during the period.

#### **3.17.8.2 Management of the Birds**

The birds were fed with broiler starter and finisher feeds respectively as the age advanced. Medication and vaccination program were adequately followed for the maintenance of good health. Veterinary doctor attended to the birds when needed. Proper cleaning and bio-security measures were put in place to prevent disease infestation.

#### **3.17.8.3 Production Record**

<b>Production</b>	<b>Stocking Date</b>	<b>No. of Birds Raised</b>	<b>Mortality</b>	<b>Sales</b>	<b>Income (₦)</b>
2012 Christmas	11 <sup>th</sup> October, 2012	1020	55	965	1,338,000.00
2013 Easter	24 <sup>th</sup> January, 2013	510	42	468	646,800.00
2013 July Broiler	23 <sup>rd</sup> July, 2013	204	7	197	275,800.00
2013 July Cockerel	25 <sup>th</sup> July, 2013	306	196	110	121,800.00
2013 Christmas	17 <sup>th</sup> October, 2013	1020	67	953	1,279,600.00
2014 Christmas	13 <sup>th</sup> October, 2014	510	50	460	663,000.00
2015 Easter	23 <sup>rd</sup> March, 2015	510	34	476	733,000.00
2015 Eid-El Fitri	28 <sup>th</sup> May, 2015	510	40	470	657,000.00
2015 Eid-El Kabir	3 <sup>rd</sup> August, 2015	255	23	232	330,300.00
2015 Christmas	12 <sup>th</sup> October, 2014	510	32	478	804,100.00
2016 Ramadan/ Eid-El Fitri	10 <sup>th</sup> April, 2016	510	30	480	838,500.00



**Broiler chicks being raised for Ramadan/Ed-El-Fitri**

### 3.17.9 FEED MILL

#### 3.17.9.1 Introduction

The University Livestock feed mill was transferred from COLANIM to the Directorate of University Farms (DUFARMS) with the mandate of producing quality fresh animal feed for the livestock units of the livestock farms and university community. The feed mill is not an industrial type but a one tone capacity mill. It is located within farm centre.

#### 3.17.9.2 Store Report

The following represents the store balance of the feed ingredients for a period of January-November 2016.

Year	Feed Ingredient	Opening Stock 2016	Closing Stock 2016
2016	Maize, soya, wheat, offal fishmeal etc	7,715kg	2,090.18kg

#### 3.17.9.3 Production / Sales Report

During the period of January – April 2016, the feed mill stock balance was 5899.89 kilogrammes of feed materials. It would be recalled on my report of 15<sup>th</sup> June, 2016, reporting the situation of the feed mill that, the fund requested by the feed mill officer, who handed over to me in March 2016 was not approved (N450,600) due to lack of fund from the management. It was then that I made a fresh request of N743,450.00 to buy feed ingredients, the request was eventually approved in June 2016. It would be recalled that no appreciable production of feed was done since the beginning of year 2016. The feed mill started production proper in June, we have lost about lost about one and a half quarters without production. Below are production and sales record.

#### 3.17.9.4 Production and Sales Record

Production Months 2016	Kilograms of feed sold/supplied kg	Value of feed sold/supplied (N)	Remark
January	-	-	No fund
February	-	-	No fund
March	286.6	10,987.65	

April	50.64	3,033.44	
May	585.5	61,474.68	
June	1728.5	183,277.61	
July	1728.5	247,331.00	
August	835	83,993.45	
September	411	36,418.40	
October	523	38,231.05	
November	Nil	Nil	
December	-	-	
Total	6,148.74kg	664,747.28	

**NB**

Kilogramme of feed sold = 6148.74kg  
Value of feed sold = N664, 747.28  
Value of feed ingredients as @ October/November = N285,505.75  
Bin Balance of ingredients as at October/November = 2,090.18kg

**3.17.9.5 Student Teaching / Training**

The feed mill is well located, to accommodate students who want to do the practicals on Animal feed production. The students from COLANIM are regular callers at the mill for their training session. Students also come from outside for excursion especially students from neighbouring countries like Ghana, Liberia and Republic of Benin.

**3.17.9.6 Routine Management Activities**

The routine management activities done at the feed mill includes, milling of edible animal feed, machine maintenance and record keeping.#

**3.17.9.7 Research Activities**

The researchers from College of Animal Science and Livestock Production do come to carry out some research works especially on quality control of feed ingredients etc.

### **3.17.9.8      Achievements**

The feed mill has achieved its mandate of providing training ground for students and we have been able to produce feeds for the farm and university community some revenues are also internally generated for the university.

### 3.17.10 POULTRY LAYER UNIT

#### 3.17.10.1 Stock Report

MONTH	OPENING STOCK	MORTALITY	CLOSING STOCK	REMARKS
January 2016				
Batch A	459	6	453	
Batch B	489	4	485	
Total	948			
February 2016				
Batch A	453	7	446	
Batch B	485	6	479	
Total	938			
March 2016				
Batch A	446	1	445	
Batch B	479	1	478	
Total	925			
April 2016				
Batch A	445	6	439	
Batch B	478	36	442	
Total	923			
May 2016				
Batch A	439	15	424	
Batch B	442	36	406	
Total	881			
June 2016				
Batch A	424	37	387	
Batch B	406	28	378	
Total	830			
July 2016				
Batch A	387	41	346	
Batch B	378	25	353	
Total	765			
August 2016				
Batch A	-	-	-	
Batch B	353	9	344	
Total	353			

### 3.17.10.2 Production Report from January to August, 2016 (Batch A)

MONTH	TOTAL WHOLE EGG (CRATES)	TOTAL CRACK EGGS (CRATE)
January	295 crates, 12 pieces	7 crates, 27 pieces
February	277 crates, 8 pieces	crates, 26 pieces
March	297 crates, 16 pieces	6 crates
April	260 crates, 5 pieces	8 crates, 1 pc.
May	259 crates, 24 pieces.	9 crates, 21 pieces
June	180 crates, 19 pieces	10 crates, 14 pieces
July	45 crates, 5 pieces	4 crates
August	-	-

### 3.17.10.3 Production Report from January to August, 2016 (Batch B)

MONTH	TOTAL WHOLE EGG (CRATES)	TOTAL CRACK EGGS (CRATE)
January	350 crates, 9 pieces	3 crates, 24 pieces
February	337 crates, 29 pieces	6 crates, 3 pieces
March	349 crates, 11 pieces	6 crates, 4 pieces
April	316 crates, 15 pieces	5 crates, 15 pieces
May	270 crates, 9 pieces.	6 crates, 8 pieces
June	249 crates, 19 pieces	6 crates, 3 pieces
July	215 crates	4 crates, 2 pieces
August	55 crates, 22 pieces	21 pieces

### 3.17.10.4 Egg Collection between January and August, 2016

MONTH	WHOLE TOTAL EGG SOLD (CRATE)	VALUE (₦)	TOTAL CRACKS EGGS SOLD CRATE	VALUE (₦)	TOTAL (₦)
January 2016	606½	381,550	11	3,450	385,000
February 2016	639	441,250	10	3,000	444,250
March 2016	596	431,700	9	2,700	434,400
April 2016	589	407,775	17½	7,050	414,825
May 2016	543½	376,775	14	2,200	380,975
June 2016	422½	293,050	10	3,000	296,050
July 2016	249	175,075	6	1,800	176,875
August 2016	74	57,900	½	150	58,050

### 3.17.10.5 Old laying Birds Sales

MONTH	NO. OF BIRDS SOLD AT N1,000	VALUE (₦)
January	-	-
February	-	-
March	-	-
April	-	-
May	-	-
June	-	-
July	346	346,000
August	344	344,000
<b>TOTAL</b>	<b>690</b>	<b>690,000</b>



**Cross section of poultry layers of DUFARMS**

### **3.17.11 TEACHING AND RESEARCH SECTION**

#### **3.17.11.1 CROP TYPE COLLECTION PLOT**

**Crop Type Collection Plot:** This unit was established to offer educational opportunities to students in the area of crop identification.

**Crop Establishment and Management:** The year cropping season started with land clearing, heaping bed making, planting watering, weeding and all other cultural practices.



Bed making



Bush clearing

#### **Some Established Crops at Unit**





Yam plot in CTCP



Pepper in the nursery section



Kenaf plot



Maize field in CTCP

### 3.17.11.2 Research work

Series of research works were embarked on during the course of 2016. These research activities included:

1. **ASSESSING THE EFFECT OF ORGANIC AND INORGANIC NUTRIENTS SOURCES ON SOME SELECTED VEGETABLES:** The vegetables used here were Tomato (*Solanum lycopersicum*) and pepper (*Capsicum annum*), while the nutrient sources used were Super soil (organic), NPK and foliar fertilizers which were both inorganic nutrients sources.
2. **ASSESSING THE EFFECT OF ORGANIC AND INORGANIC NUTRIENTS SOURCES ON MAIZE:** The test crop used here was maize (*Zea mays*) while the nutrient sources used were Super soil (organic), NPK and Foliar fertilizers which were both inorganic nutrients sources.

3. **ASSESSING THE EFFECT OF DIFFERENT APPLICATION LEVELS OF SUPER SOIL ON MAIZE:** The test crop used here was also maize (*Zea mays*) with different levels of super soil (50t/ha, 100t/ha, 250t/ha and 500t/ha) while NPK fertilizer was used as standard or control.
4. **ASSESSING THE EFFECT OF CAJANUS CAJAN (PIGEON PEA) AS MULCH ON CROP YIELD AND WEEDS MANAGEMENT:** The super soil experiments focus was on the need to get a Good Nutrient Source for crop production and also to ameliorate the green house Gas Emmission. The plants used for production of the super soil were carefully selected based on availability in the area and fungicidal/bacterial efficacy inherent in the plants, while the livestock waste used was poultry droppings. The time of collection, the mixing ratio and the decomposition period were also significant.

In comparison with the Inorganic fertilizers and manure, the yield output and laboratory analysis has shown the used of Super soil to be better.

Below are the pictures of some of the research works;



**A. Applying the SUPER SOIL on the experimental plot**



**B. Effect of SUPER SOIL on Solanum lycopersicum**



**C. Establishment of Cajanus cajan for Weeds Mgt. Exp.**



**D. Effect of SUPER SOIL on Zea mays**

### 3.17.11.3 STAFF AND STUDENTS RESEARCH FIELD

#### Preamble

The Staff and Student Research Farm (Crop) is a section of the Teaching and Research unit in the Directorate of University Farms (DUFARMS) whose primary assignment is to make land available and prepare land for both staff and students who wish to carry out research projects. Also technical advice and guidance are given to staff and students in ensuring proper laying-out and execution of the projects. The farm is seated on 28Ha of arable land.

**A. Land Preparation for Staff and Students:** Research plots were prepared mechanically for both staff and students based on their request. Below is the summary of land request prepared for the researchers from each department.



Ridging being carried out by a Tractor (arrowed)



Harrowing activity with the Tractor

#### B. Land Request by the Departments

(i). Horticulture Department (HRT)

Land area(m <sup>2</sup> )	Amount(₦)	Miscellaneous receipt number
2500	2,940.00	0320017
7500	8,812.00	0318851
5000	5,875.00	0321552
<b>15000</b>	<b>17,627.00</b>	

**(ii) Crop Protection Department (CPT)**

Land area(m <sup>2</sup> )	Amount(₦)	Miscellaneous receipt number
225	3,000.00	0321551
10000	11,750.00	0318898
2500	2,937.50	0310483
2500	2,937.50	0310464
20000	16,000.00	0310470
140	2000.00	0325073
5000	5875.00	0327554
5000	4000.00	0327751
<b>45365</b>	<b>48,500.00</b>	

**(iii) Plant Physiology and Crop Production Department (PPCP)**

Land area(m <sup>2</sup> )	Amount(₦)	Miscellaneous receipt number
5239	7,050.00	0310486
2000	2,937.00	0320029
10000	7,750.00	0310485
144	3,000.00	0320016
5000	5,875.00	0318506
1000	1,000.00	0310467
3610	4,250.00	0310485
5000	5,890.00	0310421
1500	2,940.00	0318501
1225	2937.50	0326751
850	2000.00	0325084
5000	5875.00	P118910547
<b>40568</b>	<b>51,504.50</b>	

**(iv) Plant Breeding and Seed Technology Department (PBST)**

Land area(m <sup>2</sup> )	Amount(₦)	Miscellaneous receipt number
7200	Manually cleared	
497	2975	0326755
250	2940	0327556
616	2940	0327557
225	2937.50	0325528
220	2937.50	0320002
<b>9008</b>	<b>14,730.00</b>	

**(v) Soil Science and Land Management Department (SSLM)**

<b>Land area(m<sup>2</sup>)</b>	<b>Amount(₦)</b>	<b>Miscellaneous receipt number</b>
2500	2,937.50	0320023
400	2,937.00	0310484
5000	5,875.00	0320008
900	2937.50	0324226
2500	Manual clearing	
<b>11300</b>	<b>14,687.00</b>	

**(vi) AMREC**

<b>Land area(m<sup>2</sup>)</b>	<b>Amount(₦)</b>	<b>Miscellaneous receipt number</b>
5000	4,000.00	0316612
<b>5000</b>	<b>4,000.00</b>	

**(vii) PRM**

<b>Land area(m<sup>2</sup>)</b>	<b>Amount(₦)</b>	<b>Miscellaneous receipt number</b>
10000	11,750.00	0320018
<b>10000</b>	<b>11,750.00</b>	

**(viii) CADESE**

<b>Land area(m<sup>2</sup>)</b>	<b>Amount(₦)</b>	<b>Miscellaneous receipt number</b>
10000	11,750.00	By electronic transfer payment
<b>10000</b>	<b>11,750.00</b>	

**(ix) Centre for Community- Based Farming Scheme (COBFAS)**

<b>Land area(m<sup>2</sup>)</b>	<b>Amount(₦)</b>	<b>Miscellaneous receipt number</b>
15000	17,625.00	0324788
<b>15000</b>	<b>17,625.00</b>	

**C. Lining-Out and Pegging:** Those students whose land had been completed have started work on their experimental fields starting with the plot layout i.e. lining and pegging. Below are some of the activities carried out by these students



A project supervisor guiding his student on some activities



Plot laying out by project students

**D. Some Field Activities by the Researchers**

Below are some of the field activities carried out by the researchers:



A PhD student on his plot working



Student collecting data



Pepper experimental plot



A student on her plot working

**E. Clearing of the Bond on the Field:** The labourers seen below are clearing the bond- an area that has been overgrown with weeds and shrubs with the view of converting them to a more productive and usable land.



**Clearing of bonds by casual labourers with the view of converting them to usable land**

**F. Research Field Road Maintenance:** As part of our duties in making sure the road to the research field is neat and kept tidy, the main road and other access roads were constantly cut low (and sprayed with glyphosate) ) for easy access to project plots.



**Road leading to the research field cleared**

**G. Construction of Shed for the Use of Researchers**

During the month under review construction of two sheds for the comfort of the researchers was done. This is necessary as it will not only protect them from harsh weather condition but also serve as a resting place.



**Constructed shed**

### **H. Training of Foreign Student on Industrial Training**

During the period under review, a foreign student from the Republic of Benin, Mr. Foudelou I. Issaka who was on industrial training worked in the unit and carried out several operations and activities on the staff and students research field.



*Mr. Foudelou Issaka being instructed by an official in the Tractor unit*

### **I. Special Assignment Carried Out in the Year**

#### **Mechanical Land clearing of additional 5 hectares of land**

Due to the shortage of ploughable land experienced last year, a request to open another 5Ha of land was proposed and approval was given to do so. The contract was awarded to Olude Gamu Limited, a firm renowned in agricultural land clearing. The bulldozer for the exercise was taken to the site by a lowloader on 22<sup>nd</sup> March 2016. Work commenced on the following day 23<sup>rd</sup> March 2016 and finished on 31<sup>st</sup> March 2016. A total sum of six hundred and fifty thousand naira (₦650,



000.00) was approved for the clearing of the whole 5 hectares of land. The job was satisfactory completed.



**Arrival of the bulldozer**



**Bulldozer in action clearing**

### J. Summary of Income Generated on Land Preparation from Each Department

Department	Land area(Ha)	Amount (N)
HRT	1.5	17,627.00
CPT	4.5365	48,500.00
PPCP	4.0568	51,504.50
PBST	0.9008	14,730.00
SSLM	1.13	14,687.00
AMREC	0.5	4,000.00
PRM	1.0	11,750.00
CADESE	1.0	11,750.00
COBFAS	1.5	17,625.00
<b>TOTAL</b>	<b>16.1241</b>	<b>192,173.50</b>

### K. Summary of Staff and Students Projects Carried Out In Year 2016

The below shows the categories of research projects conducted during the year under review:

S/N	COLLEGE/DEPT.	LEVEL	NO OF STUDENTS
1	CPT	Undergraduate	7
		Postgraduate	2
2	PPCP	Undergraduate	13
		Post graduate	7
3	HRT	Undergraduate	3
		Postgraduate	0
4	SSLM	Undergraduate	1
		Postgraduate	4
5	PBST	Undergraduate	1
		Postgraduate	6
6	MICROBIOLOGY	Undergraduate	4
		Postgraduate	0
7	CADESE	Postgraduate	2
8	PRM	Undergraduate	
9	AMREC	Demonstration plot	
10	ACAI	FUNAAB-IITA Project	
11	COBFAS	Undergraduate	Part- time degree students

### **3.17.11.4 SEED PROCESSING AND STORAGE SECTION**

The Crop Type Seed Processing and Storage section is the short term storage facility of the Directorate of University Farms. This section, as the name implies, stores up seeds to be cultivated in due seasons for research and commercial purposes. Seeds stored up are gotten from various sources such as the Crop Type Collection Plot (CTCP), various research institutes, CYPSS pilot and multiplication plots, seed companies and from exploration tips. Till date, the CYPSS has consistently supplied the CYCP with seeds for continuous re-establishment of the Crop Type Collection Plot (CTCP) for both irrigated and rainfed cropping. Seeds of various legumes, cereals, vegetables, spices, medicinal crops etc have been supplied for planting. Seeds harvested from CTCP, CYPSS pilot and multiplication plots and seeds from exploration tips have also been cleaned, processed and stored. Sales of seeds have been and are ongoing as several researchers, farming and undergraduate class works have made use of seeds purchased from CYPSS. Money generated has been constantly remitted into the University's IGR. Periodic seed germination test and field grow out are done for various seeds in store.

There is however, need for seed stocking as the seed viability has deteriorated in some seeds, due to power outages. There is also need for a standby generator to aid successful seed storage.

### **3.17.11.5 TURKEY BREEDING**

The turkey breeding unit is an arm of Teaching and Research Farm of the Directorate of University Farms (DUFARMS). The strains of turkey in the unit include crosses of both local and exotic breeds. Basically undergraduates and postgraduates students are involved in application of various methods of breeding techniques and most especially Artificial insemination method and Genetic and Breeding Methods. Some graduates and postgraduates students had passed through this unit since we started the unit.

#### **3.17.11.5.1 Stock Record**

The opening stock for the year 2016 was 88 in numbers as follows:

Male	-	7
Female	-	24
Growers	-	21
<b>Total</b>		<b>51 (During the 1<sup>st</sup> quarter of 2016)</b>

During the year, we had some additional stock through breeding. Totaling about 37 poults and growers, but due to some unforeseen problems like irregular feed supply, disease and unfavorable weather problems, we lost most of the stock.

As at today, November 2016 the total number of adult turkeys in stock is 19 in number, all females. They are unable to breed because we have lost the males in the due to insufficient feed intake.

#### **3.17.11.5.2 Remedies used to reduce mortality include**

- 1 The use of drugs – Reproceryl, Topceryl and Albiovit
- 2 The use of polythene sheet to cover their houses to reduce adverse weather condition.

#### **3.17.11.5.3 Student Teaching / Training**

During this year, we have 4 research students from COLANIM, the students worked on artificial breeding, feather traits and physiological differences in strains of turkeys. The students were coming every day to do one assignment or the other, under the supervision of Professor O.M. Ozoje and Dr. Durosaro

#### **3.17.11.5.4 Routine Management Activities**

Routine management includes, feeding, cleaning of pens and surroundings, artificial insemination sessions and handling of turkeys.

Feed Consumption from January – November 2016 = 900kg

Value of Feed consumed from January – November = 113,099.75

#### **3.17.11.5.5 Research Activities**

Research activities are based on artificial breeding, plumage coloration physiological traits of indigenous turkeys.

#### **3.17.11.5.6 Achievements**

During the artificial breeding, some poults were hatched through the artificial mating techniques done by the students. The little number of turkeys on ground now was produced through this technique.

### 3.17.11.6 POULTRY BREEDING

The unit is mainly for training, breeding and research activities since its creation, three different types of genotypes are kept for the purpose slated above, two junior and one senior personnel ensure the smooth running of the activities. The management system practiced at the unit is strictly intensive commercial activities partly take place at the unit viz-a-viz sales of table eggs and old layers stock.



**Cross section of local chickens raised in the unit**

#### Stock record as at January

Normal	-	15
Naked neck	-	17
Frizzle	-	<u>3</u>
		<u><b>35</b></u>

#### November, 2016

Normal	-	14
naked necks	-	17
Frizzle	-	<u>2</u>
		<u><b>27</b></u>

#### Job Description

- i. Daily feeding and regular record keeping
- ii. Frequent packing of litters
- iii. Maintaining hygiene environment of the unit.

Rehabilitation of the unit was carried out during this period after the old stock of birds were sold, fund was released for the purchase of another set of birds. The FUNAAB Alpha birds were also purchased while the process of buying the exotic ones is on going.

### 3.17.11.7 RABBITARY UNIT

Rabbits are fragile animals. They are reared under intensive management system. Its meat has low fat, low cholesterol and high protein hence has a high medicinal value. As delicate animals need to be handled and managed with care for maximum output. There were pure, breeds like California white and crosses such as Red and White New Zealand, Chinchilla and Dutch.

Total stock as at 1<sup>st</sup> January, 2016

<b>Buck</b>	<b>Doe</b>	<b>Kitten</b>	<b>Weaner</b>	<b>Grower</b>	<b>Total</b>
28	40	5	14	18	104

Stock as at 25<sup>th</sup> November, 2016

<b>Buck</b>	<b>Doe</b>	<b>Kitten</b>	<b>Weaner</b>	<b>Total</b>
16	46	9	5	77

The reduction observed was due to death

#### 3.17.11.7.1 Kindling

Those kindled during this period but most of kittens died due to poor mothering habits and often times natural disaster

#### 3.17.11.7.2 Feeding

Since animals were raised intensively, concentrates and *Tridax procumbens* leaves were fed to the animals.

#### 3.17.11.7.3 Management Practices

Daily management practices were done and animals were given treatment by the veterinary personnel of the University when shown signs/symptoms of diseased or infection.

#### 3.17.11.7.4 Infection/Disease

Rabbits are prone to cold hence the major disease is pneumonia, that killed them at fast rate. In order to reduce its incidence additional heat is provided with stove and tarpaulin was used to cover the openings in the house.

### 3.17.11.8 PIGGERY UNIT

The Piggery unit as an arm under the Teaching and Research section of the Directorate of the University Farms (DUFARMS). Its sole aim and objective is to complement the classwork in terms of Teaching and Research (Practical) for both undergraduate and postgraduate students. Beside this primary establishment, it serves as a visiting site for pupils, students and visitors outside the host community. Pigs are hardy and highly prolific animals that could be managed with little cost. There are no pure breeds of pigs but rather crosses which include Duroc, large white and large black.

#### Opening Stock as at 1<sup>st</sup> January, 2016

<b>Breeding Boar</b>	<b>Dry Sow</b>	<b>Growers</b>	<b>Weaners</b>	<b>Total</b>
6	11	5	49	71

**Feeding:** Animals were fed with correctional feeds supplied by the University feedmill. Also feed supplements like cassava peels and fruits were fed often times.

**Medication:** Animals were given general treatment on a quarterly basis. Except when show signs/symptoms of infections and the attention of the Veterinary personnels would be needed.

**Funding:** The University usually release funds for the smooth running of the unit.

**Sales:** Animals were either sold on hoof or slaughtered for sales to the people. A total of three hundred and nine thousand, six hundred and eighty-naira (309,680.00) realized from the sales of fifty- four (54) animals of different categories has been credited into the University IGR account through the Piggery Unit (T & R) DUFARMS.

**Management Practices:** Norms/routine practices were carried out on daily basis, but aside cleaning of the pens, serving of feed and water, animals were also observed for signs/symptoms of illness or diseases.

**IT/Project Students:** Thirty eight (38) students out of which four (4) students were postgraduates had their research work in the unit. Also, 300 level students had their practicals on Wednesday morning while 500 level Agricultural students had theirs on Thursday evenings during their second semester.

**Farrowing:** Five (5) in sow-farrowed thirty (30) piglets within this period.

**Donation:** Six (6) project weaners were donated to the piggery unit by set of student research supervisors.

**Materials:** Twelve (12) mortalities were recorded which cut across different categories of animals.



### 3.17.11.9 SMALL RUMINANT UNIT

The small ruminant unit is made up of both sheep and goats of West African Dwarf Breed which are varied mainly for the purpose of teaching and research. During the period under review, students from the colleges of Animal Science and Livestock Production (COLANIM) and College of Veterinary Medicine (COLVET) often visited the unit for practical demonstrations and teachings on small ruminant management and production.

#### Stock record

Sheep unit	Ram	Ewe	Grower		Lamb		Animal on ground in the unit	Animal with project students	Total
			Male	Female	Male	Female			
Opening Stock as at 1 <sup>st</sup> Jan., 2016	03	21	-	1	1	-	25	13	38
Closing Stock as at 30 <sup>th</sup> November 2016	04	16	-	-	-	1	21	01	22
Goat unit	Buck	Dam	Grower		Kid		Animal on ground in the unit	Animal with project students	Total
			Male	Female	Male	Female			
Opening Stock as at 1 <sup>st</sup> Jan., 2016	03	17	8	-	3	1	32	18	50
Closing stock as at 30 <sup>th</sup> Nov., 2016	03	18	-	-	1	2	24	12	36

8 Sheep and 7 goats were either culled or paid for research students who lost the animals during the course of their research work. Consequently ₦56,400 and ₦30,800 was generated from sheep and goat respectively. The total amount of ₦87,200 generated was remitted into the University IGR account.

#### **3.17.11.9.1 Student training and practical demonstrations**

Some practicals carried out by staff and students during the period under review included de-horning of goats wound dressing, bone alignments etc. some IT and FPY students were also trained on small ruminant management techniques.

#### **3.17.11.9.2 Research Activities**

For the year under review, 4 masters and 20 undergraduate students were involved in various research/experimental projects in the units. The University animals were made available (including other facilities like housing etc) for use by Students for their research work.

#### **3.17.11.9.3 Animal management**

The animals were raised using the intensive management system. Grasses were cut and carried to the small ruminant unit thrice on weekly basis. Feed concentrates were also included in their diet. However, towards the middle of the year, the supply of feed concentrate to the unit became inconsistent. By implication, the animals fed only an cut grasses and on forages browsed on in the re-activated 0.9ha paddock attached to the unit.

#### **3.17.11.9.4 Health management**

The Veterinary doctors from COLVET are saddled with the health management of the animals in terms of treatments and medications. General treatment of the animals were carried out on quarterly basis. During the period under review, animals suffered from the incidence of pneumonia and other nutritional deficiency related diseases, particularly in animals that were released to research students for their research works and returned to the unit after the expiration of such research. These diseases incidence led to the death of some of the animals. Moreover, spread of disease between the University animals and animals brought into the farm by research students were common occurred within their period.

### 3.17.11.10 CATTLE UNIT

The cattle unit of Federal University of Agriculture, Abeokuta located at the livestock farm (DUFARMS) provides a basic platform for Teaching and Research in the area of large ruminant specification. Apart from the animal protein in form of Beef, milk, cattle also produce large volume of drugs (waste) which is a major component in the production of Biogas. The dungs contain the major Bacterial which enhances fermentation and production of Biogas in the Digester.

These (ethane) gas can be use for cooking, heating and generation of power supply.

#### Stock Record

	Bull	Young Bull	Cow	Heifer	Calf (m)	Calf (f)	Calving	Culled	Mort.	Total
Opening Stock (Jan)	4	7	22	29	4	5	17	13	2	71
Closing stock (Oct)	4	5	18	24	9	15				73

#### *Routine Management*

- Daily cleaning of the Cattle holding yard
- Daily grazing of the animals on Improved Pasture by the Fulani herdsmen.
- Tagging of calves for proper identification
- Daily stock record, Birth, Culling and Mortality record
- Inspection for sick animals
- General treatment of animals by the veterinary doctors
- Serving of supplements salt to the animals
- Provision and serving of water to calves

#### **Student practicals and research activities**

Undergraduate and post graduate students from various departments carried out their research activities at the unit.

**Underlisted are the number of Students and department**

S/N	Department	Number of Students
1.	Animal Production and Health (APH)	4
2.	Pure and Applied Zoology	2
3.	Agric. Engineering	5
4.	Horticulture	1
5.	Soil Science	3
6.	Micro-biology	1
<b>Total</b>		<b>16</b>

### 3.17.11.11 PASTURE AND RANGE MANAGEMENT UNIT

The Pasture and Range Management (PRM) unit was established mainly for teaching and research activities for both staff and students. The unit comprises of the Experimental Demonstration Plot and the University Paddock.

**The experimental/demonstration plot:** This is a 10m x 10m plot planted with various grasses and legumes. The establishment of the plot is to serve as a source for students weed and seed album collections, a means of familiarizing students with some common species of grasses and legumes and serve as a visitation site for students on excursion.

Some of the grasses and legumes already established in the demonstration plot include:

#### Grasses

1. *Panicum maximum* (Green panic)
2. *Panicum inchitsi*
3. *Pennicetum purpureum* (Elephant grass) purple
4. *Pennicetum purpureum* (Green)
5. *Brachiaria spp*
6. *Andropogon tectorum* (southern gamba)
7. *Andropogon gayanus* (northern gamba)
8. *Digitaria smutsii* (worly finger grass)

#### Legumes

1. *Stylosanthes hamati* (verano)
2. *Stylosanthes scabra* (shrubby stylo)
3. *Gliricidin sepum* (Gliricidia)
4. *Demodum spp*
5. *Moringa Oleffera*
6. *Tephrocia bractedata*
7. *Leucena leucocephale*
8. *Caloropogon mucuncids*

#### **3.17.11.11.1 University Paddock:**

The paddock was established in a 4.5 hectare of land which was divided into 1.5 hectares each. The purpose of the established of the paddock was to serve as a major source of feed for the small ruminants kept under zero grazing. However, due to the increasing population of these animals, the 4.5 ha of land was completely taken over by the staff of the College of Animal Science and Livestock Production. Consequently an alternative plot of land was re-established for the University's animals to grass on. Therefore in 2016, the 0.9ha paddock attached to the new small ruminant house was established. The 0.9ha was planted with Panicum maximum, zea mays (maize), Surghum etc. In addition to the establishment of this paddock, grasses are still been cut and carried thrice on weekly basis to the small ruminant unit.

#### **3.17.11.12 FISHERIES UNIT**

The fisheries unit of DUFARMS Teaching and Research is saddle with the responsibility of managing both students and staff research work. The unit accommodates students and staff research work throughout the period under review.

##### **Activities of the Unit**

- (i) Assisting research and fishery scientists and technical officers in research.
- (ii) Training, counseling and provision of information on a wide range of tropical topics relating to fish processing and preservation.
- (iii) Supervision and coordination of field work in agriculture and fishery for research students.
- (iv) Collation, maintenance and supply of all sort of information in respect of fishery development and activities.
- (v) Overseeing the day to day planning and coordination of activities in teaching and research unit.

The breakdown of student research/project:

<b>S/NO.</b>	<b>RESEARCH</b>	<b>STATUS</b>	<b>LEVEL</b>
1.	19	Undergraduate	18 – completed 1 – ongoing
2.	4	Postgraduate	3 – complete 1 - ongoing

### **Routine Management**

1. Sweeping the hatchery complex daily.
2. Disinfection of the floor and tanks on a weekly basis.
3. Regular check on the lighting system in the hatchery
4. Weeding of the weed around the hatchery.

### **Achievements**

1. The unit was able to manage the issue of power outage during the period under review.
2. Student population was awesome, but it was effectively managed.
3. The basic material and tools needed by the students for their research purpose was provided.
4. The management provide some basic drug, working tool and some repairs was carried out.

## **3.18 DIRECTORATE OF COMMUNITY BASED FARMING (COBFAS)**

### **3.18.1 Introduction**

The Centre for Community-Based Farming Scheme (COBFAS) was established in December, 2010 to provide quality enterprise-based training in agricultural production, processing and agri-business for agricultural students at 400 Level towards stimulating their interest in agriculture and motivating them to take up agriculture as a career.

The programme is implemented through localization of the training activities in four agrarian communities of Isaga-Orile, Iwoye-Ketu, Odogbolu and Ode-Lemo (each representing the four geo-political zones of Ogun State) and On-Campus where 400 level agricultural students receive first-hand farm practical training for a period of one session.



**Prof. E.O Fakoya  
Director, COBFAS**

The vision of the COBFAS is to produce highly skilled manpower that will drive the economy in the rural communities in Nigeria through agriculture for sustainable development and food security. The mission is to contribute to sound training of agricultural students toward building modern farmers for sustainable development in line with the mission of Federal University of Agriculture, Abeokuta.

#### **Objectives of the Centre are to:**

- i. Train and build capacity of young agricultural undergraduates for improved and sustainable increase in agricultural production and productivity.
- ii. Produce generation of modern farmers that are willing to take up agriculture in the rural communities and impact positively on the lives of the communities.
- iii. Accelerate agricultural commercialization and agro-industrial development in the communities.
- iv. Create job opportunities for youths in the rural communities and encouraging them to take up agriculture as a business.
- v. Promote natural resource management/organic agriculture.

- vi. Achieve Universal food security and protect vulnerable households from hunger and abject poverty.
- vii. Contribute to food security and reduce poverty in the selected communities.
- viii. Make the impact of the University felt in the selected communities in terms of improving and increasing their economic base.

COBFAS has been able to impact positively both the rural communities and the University community. These impacts include but not limited to the following:

- i. Provision of food in form of farm produce for the members of the University and our various host Communities respectively through our successful yearly Broiler and vegetable productions respectively.
- ii. Exposing members of the host communities to modern agricultural technology which enhances their food security.
- iii. Increasing the economic activities of the communities particularly in the area of real estate, trading businesses and employment generation thereby reducing rural poverty.
- iv. Agricultural Media Resources and Extension Centre (AMREC) with the support of the Centre have helped in building the capacities of the farmers in COBFAS Communities through training, workshops, seminars and symposia etc.
- v. Since the inception of the programme, the Centre has helped in the facilitation of Concessional admissions for eligible candidates to be admitted into the University. Also, trainees under COBFAS have been playing mentoring roles for pupils/students in the Primary and Secondary schools in the Community in the area of guidance and counselling towards choosing a career, provision of writing materials and organization of tutorial classes towards educational improvement in the community particularly in passing GCE, WASSCE, NECO and UTME examinations to qualify for admission into tertiary institutions of learning.
- vi. Trainees at the various COBFAS have been at the fore-front of improved sanitation conditions in the Communities by engaging in regular environmental sanitations, rehabilitation of roads, donation of Public address system in churches and mosques as part of their community development engagements.



### **3.19 DIRECTORATE OF ENVIRONMENTAL MANAGEMENT**

The Directorate of Environmental Management of the University, started as a Parks and Garden Unit at the inception of the University's relocation to the permanent site, Alabata in 1995. This was borne out of the recognition that the University's landscape needed to be adorned with beautiful plants and flowers. The Unit metamorphosed to be known as Environmental Management Unit (EMU) from 2007 to April, 2011. With the rapid expansion of the physical landscape of the University, the need to broaden and consolidate the environmental management became important and this led to the creation of the Directorate of Environmental Management in May, 2011.

**VISION:** To transform the University landscape into one of the most beautiful and healthy campuses in the world.

**MISSION:** To effectively utilize human and material resources to develop and enhance the natural and physical landscape of the University campus towards achieving a neat, healthy and aesthetic environment, conducive for learning, research and social wellbeing of all within the University community.

The Directorate of Environmental Management (DEM) for administrative function and control, is headed by a Director and it has two major distinct Units that implement the above vision and mission statements.

- Parks and Gardens Unit (Plant Nursery, Landscaping and Parks Establishment, Trees and Landscape Management)
- Sanitation Unit (Waste Management, Building Cleaning, Drainage and Roads Clearing, Fumigation & Pest Control).

#### **3.19.1 FUNCTIONS OF THE UNITS**

##### **A) PARKS AND GARDENS UNIT:**

**The following are the specific functions of the unit. To:**

1. Plan the Establishment and Maintenance of all Landscaping projects (lawns, hedges, trees, shrubs, walkways, kerbs, Parks and Gardens, etc.) within the University Campus.
2. Promote tree planting especially shade and fruit trees within the University Campus landscape.

3. Establish a Plant Nursery for the propagation and raising of seedlings of shrubs, trees, hedges, etc. for internal use and sales to staff and the public.
4. Regulate and advise University Management on matters relating to greening projects of the University.
5. Providing recreation and leisure grounds for students, staff and the University Community through the development of open spaces, Parks and Gardens.
6. Grant permits for the usage of designated Open Space, Park or Garden, managed and maintained by the Unit.
7. Provide Training and Development through workshops, seminars and collaborations to the Unit's workforce, students and public on landscape management, plant nursery operations and related environmental topics.

#### **B) SANITATION UNIT:**

**The following are the specific functions of the unit. To ensure the:**

1. Cleanliness of Buildings and Environment
2. Evacuation and disposal of solid waste materials on campus
3. Control of insects and harmful reptiles within the University campus.
4. Fumigation and Pest Control Services.
5. Cleaning of Roads and Drainages.
6. Sanitary inspection of food vendors and other related handlers.

The implementation arrangement of the Directorate is through zoning of the University campus into 16 operational zones with a casual workforce of 155 in the Parks and Gardens Unit, which man the machines (Tractors, mowers, brush cutters, hedge trimmers, sprayers, etc.) or use hand tools to manage the landscape of the University. The Plant Nursery produces and supplies the much needed plants that adorns the University landscape.

#### **3.19.2 ACHIEVEMENTS**

The newly landscaped areas in 2016 are Centre for Entrepreneurship Studies (CENTS), College of Management Sciences (COLMAS), New Laboratories, 3<sup>rd</sup> Gate and Zenith Bank environ,

Crèche and the expansion and standardization of the Plant Nursery, Bamboo Groove, the 1000 seater Auditorium and the 750 seater new Laboratories and computer buildings.

Within the year 2016, 87 **assorted trees**, as well as numerous seedlings of hedges along the various walk and drive ways have been planted to greatly increase the campus tree canopy and enhance the plant bio-diversity.

**The Sanitation Unit**, adopts both the direct and in-direct approach towards managing the waste, cleaning of the buildings as well as managing pests and rodents through fumigation and adoption of other control measures. Private Service Providers (PSPs) or External Contractors manage the daily cleaning of all buildings in the different zones as well as waste evacuation and disposal. There are presently 29 sweepers and pickers who are casual workers, working to keep the campus landscape clean and neat. Tremendous achievements have been made in keeping away rodents, reptiles and predators away from buildings, enclaves and open spaces within the University campus.

### **3.19.3 INNOVATIONS/BREAKTHROUGHS**

#### **1. COLLABORATION AND COOPERATION WITH THREE COLLEGES OF THE UNIVERSITY:**

The Directorate through its Parks and Gardens Unit, fosters collaboration and cooperation with the Departments of Horticulture, Applied Botany and Forestry and Wildlife in the Colleges of Plant Science and Crop Production (COLPLANT), Biosciences (COLBIOS) and Environmental Resources Management (COLERM) respectively of the University for Practical Exposure of students to Landscaping and Grounds Management. The platform for the acquisition of practical experience for both undergraduate and postgraduate students of Horticulture, Applied Botany and Forestry and Wildlife have been created. Within the reporting period, a total of 297 students have benefited from practical experience in Landscape Establishment and Management, Plant Nursery Operation and Ornamental Plants Identification, Machinery and Equipment in Landscape Management Operations. Of the figure, a total of 295 undergraduate students from Horticulture, Applied Botany, Forestry and Wildlife Departments benefitted under the collaboration in 2016.

## **2. BAMBOO GROOVE, EDIBLE LANDSCAPE AND HEALTH PARK:**

At the initiative of the Deputy Director Parks and Gardens (Mr M.B.Idowu) in the last quarter of 2015, the Parks and Gardens Unit team created the Bamboo Groove and an ideal Eco Park for multi-functions behind the Plant Nursery site. The FUNAAB Alumni on 09/01/16 became the first group that launched the Bamboo Groove by hosting the Alumni members and the University Management and Community to their annual Cocktail party at the venue. The experience was quite rewarding.

Adjoining to the Bamboo Groove, is the Edible Landscape concept created by the Parks and Gardens Unit.

The Health Park is right behind the Health Centre and the idea is fostered to improve tree cover, aesthetics and create a natural ambience as health therapy to support the Health Centre.

## **3. WASTE BINS AND BASKETS WITHIN THE CAMPUS:**

The acquisition and distribution of branded waste bins and baskets within the campus has provided a great relief in the disposition and management of waste in University.

### **3.19.4 VISITS TO THE DIRECTORATE**

1. Members of the International Society of Horticultural Society during its 3<sup>rd</sup> All African Horticultural Congress visited FUNAAB and specifically the Plant Nursery, Bamboo Groove and the Edible Landscape of the Parks and Gardens Unit of the Directorate on 10<sup>th</sup> August, 2016. They expressed joy and satisfaction with what they saw and witnessed. The team was accompanied by Professor I.O.O.Aiyelaagbe of Horticulture Department.
2. The Kola Obadimu Junior's Playhouse received the University's Management's approval to use the Bamboo Groove, Plant Nursery and office of the Parks and Gardens to shoot its soap opera 'THE NATIONHOOD' Two segments of the shooting took place in May and July, 2016.

### **3.20 DIRECTORATE OF THE STUDENTS' INDUSTRIAL WORK EXPERIENCE SCHEME (SIWES)**

The Directorate of the Students' Industrial Work Experience Scheme (SIWES) operates as a link between FUNAAB, the National Universities Commission (NUC), the SIWES Division of the Industrial Training Fund (ITF), the Industries/Organizations and the Community-Based Farming Scheme (COBFAS) locations. A major mandate of the Directorate is to co-ordinate the acquisition of Relevant Production Skills (RPS) of students during Industrial Training (IT), in order to bridge the gap between theoretical knowledge and actual practice.



**Prof. Grace Sokoya**  
*Director, SIWES*

## **STUDENTS' INDUSTRIAL WORK EXPERIENCE SCHEME**

### **3.20.1 Projects Executed**

- (a) Planning and implementation of 2<sup>nd</sup> edition of 2-Day Step-down Capacity-Building Training for College Representatives, Departmental SIWES Co-ordinators and FPY Coordinators on ***“Building Workplace Professional Values and Competencies for Students and Supervisors”***
- (b) Mobilization of students for Industrial Training (IT) and Community Based Farming Scheme (COBFAS) and Organisation of SIWES Orientation Programme for students in Agricultural-based disciplines.
- (c) Organisation of SIWES Orientation Programme for students in Non-Agricultural-based disciplines at College and University-wide levels.
- (d) Quarterly SIWES Committee Meetings in FUNAAB
- (e) Participation at ITF/SIWES quarterly Zonal Supervision Meetings.
- (f) Hosting of Officials of the Industrial Training Fund (ITF) Officials from Jos Headquarters, for the log-book verification exercise.
- (g) SIWES Industrial Training Supervision.
- (h) Compilation of 2013/2014 Master and Placement Lists.

### **3.20.2 Major achievements**

- a) Timely compilation and submission of SIWES Master and Placement lists to the Industrial Training Fund (ITF) Headquarters Jos, through the National Universities Commission (NUC), Abuja.
- b) Successful implementation of 2<sup>nd</sup> edition of 2-Day Step-down Capacity-Building Training for College Representatives, Departmental SIWES Co-ordinators and FPY Coordinators in February, 2016.
- c) Regularisation of SIWES log-book Account with FUNAAB Microfinance Bank
- d) Hitch-free implementation of College-based SIWES-Orientation for students in Non-Agricultural based disciplines in June 2016.
- e) Participation at the Zonal Quarterly meetings of ITF and the Annual Retreat for SIWES Directors/Coordinators.
- f) Successful verification of students' SIWES log-books of 2013/2014 and 2014/2015 academic sessions.

## **3.21 DIRECTORATE OF WORKS AND SERVICES**

### **3.21.1 INTRODUCTION**

At the establishment of the University in January, 1988, the Department of Works and Services was one of the two service centres that came on board. The Directorate is divided into three (3) main Units. They are, Civil Unit; Electrical Unit and Mechanical Unit. Services routinely rendered are mainly in the area of maintenance of University properties, direct design and maintenance of electrical works, construction works and mechanical works.



**Engr. (Mrs.) Omolola T. BANJO**  
**Director, Works and Services**

### **3.21.1 CIVIL UNIT**

The Civil Unit of the Directorate is known for effectiveness and ease of operations and maintenance of the University infrastructural facilities which include general renovation, water distribution and maintenance of feeder roads.

The Unit is sub-divided into three (3) sections namely:

- (i) Plumbing Section
- (ii) Carpentry and Joinery Section
- (iii) Bricklaying and Masonry Section

The activities of the Unit during the period under review are:

- (i) Carpentry /furniture works such as replacement/repairs of furniture, Air- conditioner frame, window louver blades, leaking and damaged roof, doors/door locks at laboratories, offices, classrooms, lecture theatres, students' hostels and college buildings;
- (ii) It also handled all the plumbing works in the University during this period. These include the evacuation of septic tanks, replacement/repair of submersible pumps and overhead tanks, flushing of bore holes, etc.
- (iii) Water distribution to the University community through bore hole via reticulation and supply through water tanker to compliment the available bore holes;

- (iv) Re-channeling of waste water - ways, maintenance of feeder roads and grading of intra-campus roads;
- (v) The Unit also engaged in painting of offices, construction of railing at car park, concrete/masonry works, etc.

### **3.21.2 ELECTRICAL UNIT**

This Unit is one of the three Units of the Directorate. It bears the responsibility of managing electrical energy supply and distribution to the entire University community through Public Main supply (IBEDC) and through Generators. Due to the very large scope of work involved in operations within the Unit, it has a good number of staff i.e. forty two (42) staff strength of which 16 are senior staff while the rest 26 are junior staff.

The unit is divided into the following sections for its smooth running. These are:

- i. Power Section
- ii. Domestic and Industrial Section
- iii. Street and Park Light Section
- iv. Generation and Distribution Section
- v. Student Hostels Maintenance Section
- vi. Lecture Theatres/Halls and Multi-Purpose Buildings.

#### **3.21.2.1 POWER SECTION FACILITIES**

This section covers Switching, Repairs, and general Maintenance Power facilities which include the following.

- i. Power Transformer
- ii. 11KV Switch Gears (MV Panels)
- iii. Synchronizing Panels
- iv. Ring Mains Units
- v. 11KV Underground and Overhead Networks
- vi. 33KV Overhead Networks
- vii. 240/415V Underground and Overhead Networks.



### **3.21.2.2 DOMESTIC AND INDUSTRIAL SECTION FACILITIES**

This section covers Switching, Repairs, and general Maintenance of Domestic facilities which include the following.

- i. Wirings,
- ii. Fittings and appliances
- iii. Electric pumps, in University buildings

### **3.21.2.3 STREET AND PARK LIGHT SECTION**

This section covers Switching, Repairs, and general Maintenance of the Streets and Parks Lighting Networks within the University campuses. The networks include the following.

- i. University Boulevard lighting,
- ii. Ring Roads lighting,
- iii. Executive Lodges Streets lighting,
- iv. Farm Centres Streets lighting,
- v. INHURD Campus Roads lighting,
- vi. Executive Lodges Roads and Parks lighting,
- vii. Colleges and other Major Parks lightings.

### **3.21.2.4 GENERATION AND DISTRIBUTION SECTION**

This section covers Switching/operation of Power generators on campus, distribution of diesel fuel over the stations and load shedding when necessary. The generator points are:

- i. Power House station,
- ii. Senate station
- iii. COLPLANT station,
- iv. COLANIM/JAO Station,
- v. COLVET station,
- vi. Unity Building station,
- vii. Library station,
- viii. ICTREC Station,
- ix. P.G. Quadrangle station,
- x. Health Services station,
- xi. COLNAS/MPB station (2),

- xii. Farm Centres station,
- xiii. Tony Anenih halls station,
- xiv. ISEC station,
- xv. Biotech Laboratory station,
- xvi. 250 capacity Computer Lab,
- xvii. COLERM/COLAMRUD station,
- xviii. Executive Lodges station,
- xix. IFSERAR station,
- xx. INHURD station, and
- xxi. Booster station.

### **3.21.2.5 STUDENT HOSTELS MAINTENANCE SECTION**

This section covers maintenance of facilities (fans, lightings, sockets, and water pumps operation) in the University student hostels which include the following.

- i. IYAT (Female) Hall - 4 Blocks
- ii. UMAR (Male) Hall - 4 Blocks
- iii. Mable (Female) Hall - 4 Blocks
- iv. INHURD (Male & Female) Halls - 4 Blocks

### **3.21.2.6 LECTURE THEATRES/HALLS AND MULTI-PURPOSE BUILDINGS**

This section covers maintenance of facilities (fans, lightings, sockets, and public address systems) within Lecture theatres/halls/auditoriums and multi-purpose buildings within the University campus.

During the period, the unit carried out routine maintenance and repairs of electrical facilities within the students (male & female) hostel blocks, electrical facilities of the University Lecture Theatres, electrical facilities of the University College Buildings, electrical facilities of the University Centres and Executive Lodges, electrical facilities within the Federal University International School (FUNIS) premises (Classrooms, Halls, Kitchens, and Dormitories, University Power equipment (Transformers - 30 units, Ring Mains Units – 9 units, Feeder Pillars), power distribution lines (Overhead conductors and underground cables) at 240/415 Volts and 11,000 Volts, Street light stands, Park lights networks of the University Communities (main campus, INHURD) and electrical facilities within the University Farm Centres.

### **3.21.3 MECHANICAL UNIT**

This Unit is responsible for the maintenance of mechanical facilities and equipment in specified operating conditions. It ensures their optimum availability and also the safety of personnel using the various equipment.

The Unit is divided into four (4) sections and they are:-

- i. Automobile Section
- ii. Refrigerator and Air-condition Section
- iii. Generator Section
- iv. Welding Section

All these sections are responsible for the maintenance of mechanical facilities and equipment of the University in order to extend their lifespan, ensure their maximum possible return on the University investment and the safety of personnel using them.

Tasks undertaken by the Unit within the year under review include the following:

- (i) Routine maintenance and repair of the University generators including the overhauling, re-kitting of turbo-chargers of some generators; repair/replacement of radiators; and maintenance and general servicing of all generators in the University.
- (ii) Repairs and general/full servicing of the University fleet of cars, trucks, water tankers and other serviceable vehicles.
- (iii) Installation, repairs and servicing of refrigerators and air-conditioners.
- (iv) Construction of water stands, No Parking stands, welding of the University main entrance gate and the gate of the International Scholar Centre.

The Unit is also responsible for the co-ordination and supervision of the activities of the University Drivers.

### **3.21.4 ACTIVITIES OF THE DIRECTORATE FROM JANUARY – DECEMBER, 2016.**

#### **3.21.4.1 CIVIL UNIT**

##### **3.21.4.1.1 PLUMBING SECTION**

- a. Plumbing work water storage tank and separation of supply pipe at COLMAS
- b. Maintenance of ten numbers boreholes in the university February 2016
- c. Plumbing work on toilet and soak way at the University Health Services February 2016
- d. Replacement of submersible pump at block A and block B.U.K Hall March 2016
- e. Replacement of submersible pump at Post Graduate Hall March 2016
- f. Repair of faulty wash - hand basin and reticulation of the borehole at  
Booster station to Directorate of Works and Services April 2016
- g. Fixing of external tank and provision of pumping machine at COLBIOS May 2016
- h. Repair of damaged toilet at COLENG June 2016
- i. Repair of standing tap at the Vice-Chancellor's Lodge June 2016
- j. Evacuation of septic tank at the Nimbe Adedipe Library June 2016
- k. Repair of faulty wash-hand basin of the Deputy Director's Office,  
University Health Services July 2016
- l. Rehabilitation of borehole at Bakery, University Farm November, 2016
- m. Repair of toilet at COLMAS November, 2016
- n. Repair of Senate Chamber's Toilet December, 2016
- o. Repair of AMREC Borehole December, 2016
- p. Repair of Service Pipe (3nos) at COLENG December, 2016
- q. Repair of Overhead Tank at 500 seater Laboratory December, 2016

##### **3.21.4.1.2 CARPENTRY SECTION**

- a. Rehabilitation of students' Hostel (Net, door, window) and other Carpentry repair works
- b. Carpentry repairs of partial destruction of the roof at COLFHEC March 2016
- c. Changing of key cylinder at the University Health Services March 2016
- d. Carpentry, Electrical and Plumbing works at Pro Chancellor's Lodge April 2016
- e. Carpentry repair work at Ceremonial Building in preparation for 41<sup>st</sup> Annual Conference of  
Nigerian Society for Animal Production April 2016
- f. Repair of door lock and central lock in the HOD's Office, Microbiology June 2016

- g. Roofing netting of louver blades and construction of shelves for the Maintenance Office at the Vice-Chancellor's Lodge June 2016
- h. Repair of broken glass and falling PVC at JAO 3 June 2016
- i. Changing of bad key lock of the Council Chamber July 2016
- j. Carpentry works and repair of leaking roof at NUD Department, COLFHEC July 2016
- k. Carpentry works on repair of louver blades, door frame with key at FWM, COLERM July 2016
- l. Reroofing and repair of ceiling at COLVET June, 2016
- m. Repair of Roof at JAO June, 2016
- n. Repair of PVC at COLENG November, 2016
- o. Repair of all window nets at Directorate of Works and Services November, 2016

#### **3.21.4.1.3 MASONRY, PAINTING, METAL AND OTHER CIVIL RELATED WORKS**

- a. Construction of collapsed drainage system along International Scholar Centre April 2016
- b. Construction of concrete Plinth at six (6) locations for six (6) generating sets June 2016
- c. Construction of collapsed fence after GT Bank, Main gate. June 2016
- d. Recasting of fallen tension Low Tension pole at the Farm Centre August 2016
- e. Construction of switch room and perimeter fencing wall at six (6) Generator Locations  
November, 2016

#### **3.21.4.1.4 ELECTRICAL UNIT**

- 1. Repairs of street light along Lodges and FUNIS Hostels January. 2016
- 2. Repairs of the Power Transformer serving COLPHYS, COLBIOS and MPB  
February, 2016
- 3. Re-establishment of earthing/grounding system at COLNAS March, 2016
- 4. Repairs of electrical light and replacement of ceiling fans at Tractor Unit March, 2016
- 5. Replacement of Distribution Board at COLFHEC March, 2016
- 6. Provision of street lighting at Directorate of Sports March, 2016
- 7. Replacement of electrical facilities at COLVET March, 2016
- 8. Rectification of electrical power network due to stormy rainfall March, 2016

9. Repairs of street lighting along Execute Lodge through FUNIS, INHURD March, 2016
10. Electrical installation works for walkway light between the Vice-Chancellor's Lodge and Chancellor's Lodge April 2016
11. Repair of light/bulbs in classrooms and corridors at COLERM April, 2016
12. Repair/replacement of bulb in classrooms and corridor at COLAMRUD April, 2016
13. Purchase/replacement of ceiling fans and sockets at AMREC April, 2016
14. Purchase of pumping facilities and lighting point for 500KVA Generator house at the University Farm April, 2016
15. Purchase of electrical facilities at Directorate of Public Relations April, 2016
16. Replacement of wires and water heater switch at COLANIM April, 2016
17. Replacement of security light at Unity Building April, 2016
18. Repair of faulty transformer substation at IYAT Hostel April, 2016
19. Electrical maintenance works at Umar Kabir Hall Male Hostel May 2016
20. Replacement of burnt bulbs and purchase of ladder at the Vice Chancellor's Office, Senate Building May 2016
21. Repair of the University 11KVA Feeder Panel May, 2016
22. Repair of Television set at DVC Office May, 2016
23. Repair of Television set at Driver's Office May, 2016
24. Replacement of faulty Air Conditioner Circuit Breaker for Engr. II, Mechanical, Directorate of Works and Services June 2016
25. Replacement and repair of electrical fittings at the Unity Building June 2016
26. Replacement of bulbs and electrical repairs at the Dean's Office, COLENG corridor and Panel Board June 2016
27. Repair of ceiling fan at the new gate (Environmental Unit) June 2010
28. Repair of electric socket, replacement of spoilt electric bulb and plug at International Scholar Building June 2016
29. Replacement of Distribution Board at ICPD, FUNAAB June 2016
30. Provision of electrical materials for Senate Building June, 2016
31. Repair of faulty Amplifier at COLANIM June, 2016
32. Replacement of burnt capacitor at Vice-Chancellor's Lodge June, 2016
33. Replacement of Water Pump at Senate Building June, 2016
34. Rewinding of pump at Vice-Chancellor's Lodge June, 2016

35. Purchase and installation of 11KVA Gang Isolators for Feeder I and II	June, 2016
36. Purchase of electrical Printer at Directorate of Works and Services	June, 2016
37. Replacement of electrical items at Works and Services	June 2016
38. Replacement of electrical item at Physical Planning	June, 2016
39. Replacement of submersible pump at Main Gate	June, 2016
40. Repair of electrical facilities at Male Hostel	July, 2016
41. Repair of electrical facilities at COLNAS	July, 2016
42. Repair of generator cable long at Power House	July, 2016
43. Wiring of a Unit Air Conditioner Circuit at the conference room in the Post Graduate School	July 2016
44. Electrification of Isolu gate i.e University second gate and its environs	August 2016
45. Replacement of burnt feeder pillar units in transformer distribution substations	Aug. 2016
46. Completion of the repair of University Street Light Network	August, 2016
47. Maintenance of 33KV Feeder line between Main Campus/INHURD	August, 2016
48. Repair of fault on injection 2.5MVA, 33KV Transformer	August, 2016
49. Fixing of timer water control switch at Marble Hostel	August, 2016
50. Replacement of burnt diode panel at Directorate of Works and Services	August, 2016
51. Replacement of burnt bulbs at Postgraduate School	September, 2016
52. Replacement and repairs of electrical fittings at Directorate of Health Services	September, 2016
53. Replacement and repairs of electrical fittings at COLENG	September, 2016
54. Replacement and repairs of electrical fittings at ISEC	September, 2016
55. Provision of fuse wire for the 11KV Line	September, 2016
56. Maintenance work of Power Network	October, 2016
57. Replacement of surface pump water Heater Switch at COLNAS	November, 2016
58. Installation of generator at FUNAAB Water factory	November, 2016
59. Conversion of faulty underground cable to Overhead Line	November, 2016
60. Replacement of 100Amps Breaker at IYAT hostels	November, 2016
61. Replacement of pump cable at Mable Hostel	November, 2016
62. Temporary Connection of Generator at COLARUD	November, 2016
63. Repair of 11KVA Panel	December, 2016

### **3.21.4.2 MECHANICAL UNIT**

#### **3.21.4.2.1 AUTOMOBILE SECTION**

- a. Repair and Servicing of Water Tanker official vehicle 50B 29 FG attached to Directorate of Works and Services
- b. Repair and Servicing of FG 281 B50 Toyota Tacoma attached to Directorate of Works and Services
- c. Repair of Motor Cycle with registration number FG 186 B50
- d. Repair and gauging of three 3no. of tyres for the University Water Tanker
- e. Repair of the University Bedford Truck FG 70 B50
- f. Repair of the official vehicle FG 103 B50 attached to CENTS.
- g. Repair of the official vehicle FG 134 B50 attached to CADESE
- h. Repair of the University Ambulance FG 28 B50 attached to the Directorate of Health Services
- i. Repair and Servicing of the FG 281 B50 Toyota Tacoma attached to Directorate of Works and Services
- j. Repair of B50 29 FG University Water Tanker
- k. Repair of New Water Tanker brake buster
- l. Purchase of three [3] New tyres and discharge water hose for new Water Tanker
- m. Overhauling of FG 31 B50 PEUGEOT Engine attached to Directorate of Works Services
- n. Replacement of the bad battery and battery terminal clips of the official vehicle number FG 28 B50
- o. Purchase of two new tyres for FG 130 B50 Pickup Van utility vehicle
- p. Welding and Blacksmith work done on official vehicle number FG 29 B50
- q. Repair and Servicing of the vehicle number B50 63 FG attached to SIWES
- r. Maintenance and Servicing of the Toyota Hiace FG 244 B50 attached to the Dean COLAMRUD
- s. Repair of FG 130 B50 Brake system Pickup Van attached to Directorate of Works and Services
- t. Repair of Motorcycle at POWER HOUSE and power steering pump of the new water tanker at Directorate of Works and Services
- u. Repair of Printer mechanism and replacement of adaptor at the Mechanical Unit, Directorate of Works and Services
- v. Servicing and Replacement of brake pad, repair of Radiator of FG 170 B50 NISSAN URVAN



- w. Purchase of new battery for the security patrol jeep FG 127 B50 and four (4) new tyres for Patrol Jeep 50B 12 FG attached to Environmental Unit
- x. Repair and replacement of bad tyres and tanks of the motorcycle with Reg. No. FG 185 B50 attached to Directorate of Works and Services
- y. Repair of official vehicle 50B 53 FG attached to Director Works and Services
- z. Replacement of bad rotor and injector pump of the official vehicle FG 70 B50 BEDFORD

#### **3.21.4.2.2 GENERATOR SECTION**

1. Purchase of 3nos. of batteries for 100KVA Generator at BIOTECH Central Laboratory
2. Replacement of (6) nos. of malfunctioning Injector nozzles of 200KVA Generator at Senate Building
3. Replacement of 6 units injector for 500KVA CUMMINS Generator at the Power House
4. Purchase of items for cleaning the generator house at the University Farm
5. Repair of the top Gasket of 200 KVA Generator at Senate Building
6. Repair of 500 KVA Generator at PG School
7. Repair of one faulty Radiator at JAO
8. Repair of one faulty Radiator at COLERM / COLAMRUD
9. Repair of one faulty Radiator at COLNAS
10. Repair of the Exhaust Pipe of the generator at JAO
11. Repair of the Power Wizard of the 200 KVA Generator at COLERM / COLAMRUD
12. Repair of one faulty Radiator at NimbeAdedipe Library
13. Repair of 250 KVA Generator at Senate Building
14. Repair of Injector cable for 250 KVA Generator at Senate Building
15. Repair of two (2) nos. of petrol engine generator at Power House
16. Repair of Turbo charger of the 800 KVA Generator at Power House
17. Repair of leaking Silencer flex of the 200 KVA Generator at INHURD
18. Hiring of Hiab Truck for relocation of the 200 KVA Gen. set from Senate Building to ISEC.
19. Repair and welding of the 60 KVA generator exhaust pipe at Vice-Chancellor's Lodge
20. Re-Stocking of Servicing materials for some University generators
21. Repair of the Radiator 250 KVA Generator at INHURD
22. Replacement of bolts on the Generator at Unity Building

23. Maintenance and Servicing of the 100 KVA Generator at COLPLANT
24. Replacement of oil filter and battery clips of the 250 KVA Generator at INHURD
25. Repair of 250 KVA Generator exhaust pipe at INHURD
26. Repair of the Radiator and fan belt of the 500 KVA Generator at the Farm
27. Servicing of the 40 KVA Generator at Iberekodo.
28. Repair of the 60 KVA Generator at the Dean's Office, COLVET
29. Servicing of the 200 KVA Generator at INHURD
30. Replacement of oil pressure hose of the 500 KVA Generator at the University Farm
31. Repair of Power Wizard of the 250 KVA Generator at the University Library
32. Repair of six (6) number of batteries' terminal head at Power House

#### **3.21.4.2.3 REFRIGERATOR AND AIR CONDITIONING SECTION**

1. Refilling of oxygen and acetylene gas materials for Refrigerator and Air Conditioning Section, Directorate of Works and Services
2. Repair of malfunctioning Air Conditioner at AMREC
3. Repair of one (1) Air Conditioning at HOD Anatomy' Office COLVET
4. Repair of Air Conditioner at the Directorate of Public Relations
5. Repair of (3) nos. of Air Conditioner at Automation Section, Nimbe Adedipe Library
6. Repair of one (1) no.of Air Conditioner at Director's Office Directorate of Works and Services
7. Repair of Air Conditioner at PB ST COLPLANT
8. Repair of Air Conditioner at Senate and Admissions Office
9. Repair of Air Conditioner at AMREC
10. Repair of faulty Air Conditioner at the Nurses room at the University Health Services
11. Repair of Air Conditioner at the Medical Records Unit of the University Health Services
12. Refilling of one (1) Air Conditioner gas and wall socket at Vice Chancellor's Lodge
13. Repair of one (1) Air Conditioner and wall socket at Senate and Admissions Office
14. Repair of Air Conditioner at the Director's Office, University Health Services
15. Repair of malfunctioning Air Conditioner at HOD Office, Dept. of Anatomy COLVET
16. Repair of malfunctioning Air Conditioner at AMREC Office
17. Refilling of oxygen gas and materials for workshop use
18. Repair of one faulty Air Conditioner at the pharmacy Unit of the Health Services
19. Repair of one Air Conditioner at Unity Building

20. Repair of one Air Conditioner at the office of Advancement
21. Repair of one Air Conditioner at the COLPLANT
22. Repair of Refrigerator at the University Health Services
23. Repair of faulty Air Conditioner at the Department of HTM, COLFHEC
24. Repair of four (4) nos. of faulty Air Conditioner at the Instrumental Laboratory, BIOTECH
25. Repair of one faulty Air Conditioner at room A 216 PD ESTAB SNR. Office
26. Repair of one faulty Air Conditioner at DVC Academic Office
27. Repair of one faulty Air Conditioner at the emergency and consulting room of the University Health Services
28. Repair of one faulty Air Conditioner at the Directorate of Academic Planning
29. Repair of one faulty Air Conditioner pipe at PBST, COLPLANT
30. Repair of one faulty Air Conditioner at the University Health Services
31. Repair of one faulty Air Conditioner at ANN Department, COLANIM
32. Repair of Tray for water drainage from Air Conditioner at Senate and Admissions Office
33. Repair of faulty Air Conditioner at PTO 11 Office, Directorate of Works and Services
34. Repair of faulty Air Conditioner at room 205 of Unity Building
35. Repair of faulty Air Conditioner at AGAD, COLAMRUD
36. Replacement of Workshop materials at R&A Section, Directorate of Works and Services

#### **3.21.4.2.4 WELDING SECTION**

- a. Welding and repair of first gate at the International Scholer Centre
- b. Welding and repair of the Sign Post at Olumo Garage
- c. Welding and repair of iron door at Environmental Unit, Senate Building
- d. Welding and repair of the JAO Generator Exhaust pipe
- e. Welding and repair work carried out on B50 29 FG Water Tanker
- f. Welding and repair of the 60 KVA Generator Exhaust pipe at Vice-Chancellor's Lodge
- g. Welding and Blacksmith work carried out on FG 29 B50 Official Vehicle
- h. Procurement of a new Welding machine needed at the Workshop, Directorate of Works and Services
- i. Welding and replacement of the padlock for the 100 KVA Generator at BIOTECH
- j. Welding and repair of the University main gate, Ceremonial Road.

### **3.21.5 MAJOR ACHIEVEMENTS**

Fulfilling the mission and vision of the Directorate in line with the University aims and objectives through proactively and preventively responding to the maintenance of the University's phenomenally increasing infrastructure and municipal facilities through gradual transformation of Directorate of Works and Services, Federal University of Agriculture, Abeokuta, to a model support Service centre of unparalleled standard. The Directorate has also been able to achieve the following:

- A well managed water supply system through boreholes via reticulation with over 60 boreholes under management.
- A prompt attention to renovation/rehabilitation and maintenance of all the University infrastructural facilities.
- A well structured maintenance of generators/plants, air conditioners /refrigerators, cars/trucks, etc
- Uninterrupted power distribution to the University Community via Public Mains Supply and Generators.
- A fair resume of maintenance of electrical system with the ability for growth.

### **3.22 DIRECTORATE OF HEALTH SERVICES**

The University Directorate of Health Services is that unit of the university saddled with the responsibility of maintaining and promoting the health of the university students, staff and their dependants. The center is statutorily a primary health care facility with referral outlets with General Hospital Ijaye Abeokuta, Federal Medical Centre Idi Aba Abeokuta and Neuropsychiatric Hospital Aro as the case may be. The centre is fully covered under the National Health Insurance Scheme (NHIS). The University Health Services renders 24 Hours round the clock routine and emergency services for the university community.



**Dr. Abiodun Omoniyi Amusan**  
*Acting Director, Health Services*

The Directorate is made up of various sub units including:

- Consulting
- Nursing
- Pharmacy
- Clinical laboratory
- Medical Records,
- National Health Insurance Scheme (NHIS).
- Voluntary Counseling and Testing
- Family Planning
- Tuberculosis and Leprosy unit.

### 3.22.1 DIRECTORATE OF HEALTH SERVICES, MEDICAL LABORATORY UNIT

TABLE SHOWING THE STATISTICS OF TEST CONDUCTED AND THE AMOUNT GENERATED IN 2016

		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
<b>TISHIP</b>	<b>TOTAL</b>	1	191	283	369	337	327	232	196	24	4	138	69	<b>2,171</b>
	<b>AMOUNT (₦)</b>	<b>450</b>	<b>143,160</b>	<b>215,360</b>	<b>310,390</b>	<b>257,140</b>	<b>98,430</b>	<b>169,520</b>	<b>361,560</b>	<b>25,150</b>	<b>5,400</b>	<b>176,500</b>	<b>73,550</b>	<b>1,836,610</b>
<b>G E N E R A L</b>	STD	42	51	24	72	80	101	59	58	5	7	45	26	570
	SS	0	11	13	17	16	24	24	25	11	0	9	6	156
	SSD	0	9	9	15	3	7	13	18	10	0	2	2	88
	JS	6	5	8	6	5	7	12	4	3	0	5	1	62
	JSD	0	6	4	2	0	0	4	1	3	0	1	2	23
	OTHERS	3	18	17	13	8	13	10	21	10	0	1	4	118
	<b>TOTAL</b>	51	100	75	125	112	152	122	127	42	7	63	41	<b>1,017</b>
	<b>AMOUNT (₦)</b>	<b>50,920</b>	<b>61,550</b>	<b>59,190</b>	<b>96,850</b>	<b>101,640</b>	<b>139,980</b>	<b>85,490</b>	<b>91,840</b>	<b>26,750</b>	<b>6,800</b>	<b>58,790</b>	<b>36,530</b>	<b>816,330</b>
<b>NHIS</b>	SS	9	31	54	55	79	99	76	73	67	13	37	40	<b>633</b>
	SSD	3	17	24	18	21	46	54	34	23	1	11	17	<b>269</b>
	JS	2	12	7	18	11	13	18	11	7	0	12	7	<b>118</b>
	JSD	0	2	5	6	2	12	6	9	3	1	4	3	<b>53</b>
	<b>TOTAL</b>	14	62	90	97	113	170	154	127	100	15	64	67	<b>1,073</b>

	<b>AMOUNT (₦)</b>	<b>11,200</b>	<b>51,845</b>	<b>85,560</b>	<b>86,920</b>	<b>106,920</b>	<b>137,075</b>	<b>110,870</b>	<b>173,620</b>	<b>132,100</b>	<b>16,300</b>	<b>87,500</b>	<b>67,450</b>	<b>1,067,360</b>
<b>FUNIS</b>	<b>TOTAL</b>	0	3	2	1	4	9	13	2	0	1	1	1	<b>37</b>
	<b>AMOUNT (₦)</b>	<b>0</b>	<b>2,300</b>	<b>1,620</b>	<b>1,250</b>	<b>3,500</b>	<b>7,800</b>	<b>11,970</b>	<b>1,700</b>	<b>0</b>	<b>450</b>	<b>950</b>	<b>950</b>	<b>32,490</b>

	<b>TOTAL NUMBER OF TEST CONDUCTED</b>	<b>TOTAL AMOUNT GENERATED</b>
<b>TISHIP</b>	2,171	#1,836,610
<b>GENERAL</b>	1,017	#816,330
<b>NHIS</b>	1,073	#1,067,360
<b>FUNIS</b>	37	#32,490

### 3.22.2 STUDENTS' REGISTRATION

Four thousand and seventy-nine students were attended to during 2016 students' medical laboratory test. The cost of which is six million one hundred and eighteen thousand naira, five hundred naira only (~~₦6, 118,500:00~~) at the rate of one thousand five hundred naira only (~~₦1,500~~) per student which has been paid directly into the University account by the Students as part of their school fees.

### **3.23 FUNAAB ZOO PARK**

FUNAAB ZOO PARK is the nature, fauna and flora conservation and tourist attraction Centre of the Federal University of Agriculture, Abeokuta. It is located on a 62 hectares piece of land within the 10,000 hectares of the University, in a derived savannah zone constituting a place of: Natural Hospitality, Education, Research, Conservation, and Captive breeding of wild animals as well as Relaxation tourist attraction Centre. It is also a place for conferences, meetings, receptions in a serene natural environment; industrial training Centre for students of zoology, botany, forestry and wildlife tertiary institutions and an education Centre for the general public.



**Dr. Moses Olatunde Oyatogun**  
**Director, FUNAAB Zoo Park**

It is a place of delight for various categories of tourists to Africa, West African, Nigeria and South west state of Nigeria in particular.

#### **3.23.1 Vision**

FUNAAB Zoo Park intends to be a Centre of excellence dedicated to increase understanding participation and appreciations of nature conservation, commitment to knowledge sharing through teaching and research and servicing the community at large by creating adventure through hospitality and provision of leisure.

#### **3.23.2 Projects Executed within the Period**

1. Renovation of Primate House to prevent breakage of the restraining materials that can lead to animal injuries and escape
2. Construction of sit outs within the zoo park to enhance visitors comfort
3. Renovation of one of the cages to be able to handle civet cats
4. Acquisition of Rock Python ,royal pythons, wild geese, Gabon vipers, duikers and female common jackals to encourage captive breeding of common jackals in FUNAAB ZOO Park
5. Construction of Temporary Serpentarium within the Utility building of the Zoo Park to hold five different species of snakes that were acquired in 2016.



6. Aggressive publicity by sculpturing of wild animals on the zoo park walls to raise awareness of the immediate community to the importance of flora and fauna conservation and encouraging Conservation education through paid adverts on radio, television and public lecture activities.
7. Rental of conservation education halls within the Zoo Park to youth organizations, students societies, churches, mosques, schools and non- governmental organizations whose activities encourage and enhance ecotourism, conservation education and biodiversity sustainable utilization for wellness, tourism development and entrepreneurial activities thinking outside the box.

### **3.23.3 ZOO PARK**

#### **3.23.3.1 Major Achievements**

1. Development of a computer based zoo park Management software tagged FUNAAB ZOO PARK SOFTWARE. This was developed by students of the computer Science department, FUNAAB and now being requested for by the National Association of zoological gardens and wildlife park (NAZG) to be used in all zoological gardens and Wildlife Park in Nigeria.
2. Inauguration of NAZG in Abuja and encouragement of the state, federal government and all private owners of zoological gardens and wildlife parks to adequately fund biodiversity and conservation education in various areas of their operation, to raise awareness for the need of biodiversity conservation, education and ecotourism development.
3. Encouraged government private and public partnership to showcase and conserve diverse Nigeria biodiversity, scenery, flora and fauna resources.
4. Provided nature based field laboratories for the following categories of public primary and secondary educational institutions and student of the following disciplines in all Nigerian tertiary institutions.
  - Forestry and Wildlife management and ecotourism
  - Ecotourism and hospitality management.
  - Wildlife veterinary medical student.
  - Applied zoology and applied botany
  - Home science management
  - Entrepreneurial and nature based management science

5. In 2016, practical field training and industrial attachment were extended to:
  - 95 students of forestry and wildlife management
  - 14 students of pure and applied zoology
  - 3 students of federal university of technology Akure
  - 2 students of national open university of Nigeria (NOUN).
  - 1 student of Adekunle Ajasin University.
  - 2 students of the University of Ibadan, Ibadan.
  
6. Private and public schools, primary and secondary institutions from Oyo, Ogun, Osun, Lagos, Delta, Edo, Ekiti States visited the FUNAAB zoo park on excursion, picnics retreats and trip learn activities, organized by the FZP.
  
7. Partnership with the following non-governmental organizations to educate public on tree planting campaigns conservation of flora and fauna resources, ecotourism, Wildlife based tourism and scenic development, Landscaping, Horticultural, and medicinal plant conservation inside the zoo park.
  
8. Organizations FUNAAB Zoopark partnered with include:
  - Green impact international G.I.I
  - Olusegun Obasanjo presidential library (OOPL).
  - American university of Nigeria, Yola, Adamawa state.
  - (CERTS) FUNAAB Centre for entrepreneurial studies.
  - Obafemi Awolowo University, Ile Ife Centre for entrepreneurial studies.
  - Youth Organisations: Examples attended to are:
    - Ile Ife entrepreneurs in conjunction with Oni of Ile Ife and Bank of Industry (BOI).
    - Peter Akinola Foundations Abeokuta, Nigeria.
    - UAMC Agbo Erin Lagos state.
    - Baptist, Catholic, the African Church, RCCG, Methodist and Anglican Church.
    - Muslim Society of Nigeria,
  - The Nigerian Red Cross Society
  - Enactus, Nigerian Chapter, Sahara Energy Group. Took the team to a National Competition among about 36 Nigerian Universities where FUNAAB took THIRD place position among all participants even though FUNAAB was featuring for the first time in such competition.
  - World pangolin, World Environment and World Animal Days were celebrated.

- Partnership with Leisbig zoo Germany and Lufasi Park Nigeria, Qubrat Zoo, Omu resorts and Lagos state tourism development Centers, Vow ventures were established.
- Successful Captive Breeding of;
  - Ostrich,
  - Mona monkeys,
  - Common jackals,
  - Donkey,
- The following species of wild animals were free ranging and frequently sighted in FUNAAB Zoo Park:
  - ✓ Water bucks
  - ✓ Bush bucks
  - ✓ Duikers
  - ✓ Mongoose
  - ✓ Grasscutters
  - ✓ Bush baby (Galagos senegalenses)
- Introduced pangolin into the FZP to effectively utilize the numerous ant hills and mounds that are being studied.
- FUNAAB Zoo Park provided space for eight post graduate student of pure and applied zoology. Veterinary medical students, animal physiology students, forestry and wildlife management students and several others to carry out frontline researches, on wild animal capture, breeding, cage construction, and utilization of animal waste, cow dung, poultry waste, and other biodegradable wastes to generate methane gas and liquid organic fertilizer for increased agricultural production, alternative energy source, and sustainable natural source utilization and conservation.
- Additional, wildlife stock acquisition added to the FZP collection included; summarized table.
- Taxidermy preparations and museum specimen were added in preparation for the development of a world class museum of natural history at FUNAAB Zoo Park.
- The FUNAAB ZOO PARK Food restaurant and visitors eat in facilities started operation in 2016 with an Industrial training student of Tourism and Hospitality Department of National Open University of Nigeria (NOUN) in Student Work Study programme.

### 3.23.3.2 Student Work Study Programme

In 2016 Student Work Study Programme was initiated to assist student to earn some token to finance their studies and final year student projects in readiness to serve after graduation from FUNAAB and put into practice some of the practical training gained while working under a relaxed atmosphere in FUNAAB ZOO PARK (A place of NATURAL SERENITY AND HOSPITALITY). Twelve students were engaged in the Work Study Programme at the first instance. This also provided training and job security especially as the students and corpsers in training were always available to ensure hitch free and smooth running of the activities of the Zoo Park to prevent industrial action and strike negative effects on the running of the Zoo Park for the general good of Nigerian Economy especially during hard times and recession periods. It was an effective back up for peace and harmony for nature and natural conservation.

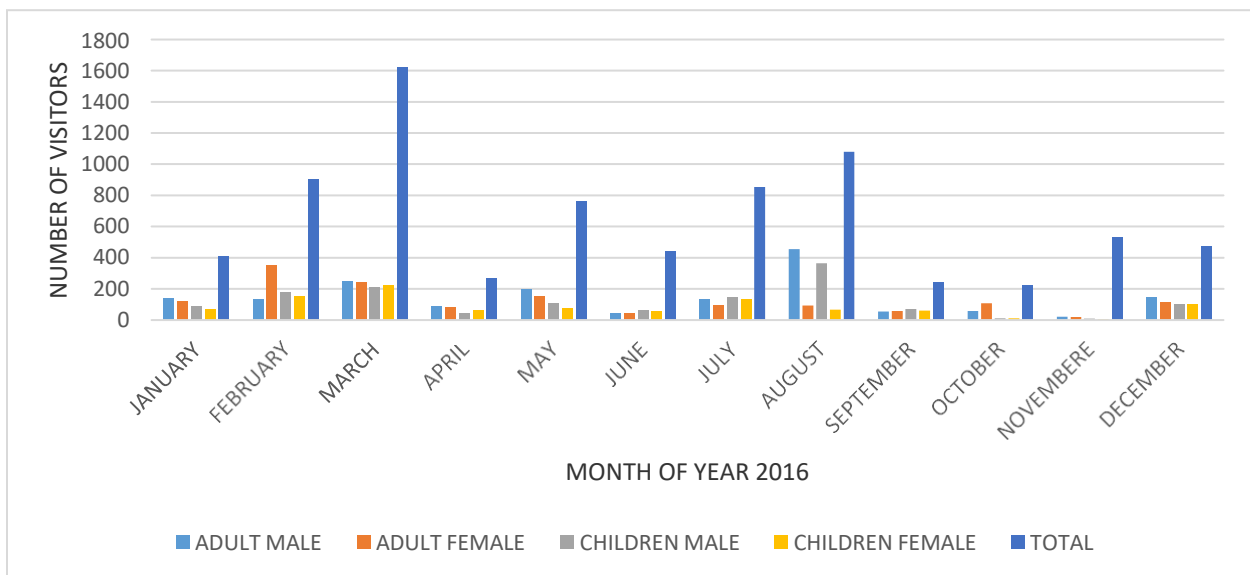


Figure 1: Monthly Variation by Categories of sex and total number of Visitors to FUNAAB ZOO PARK in Year 2016.

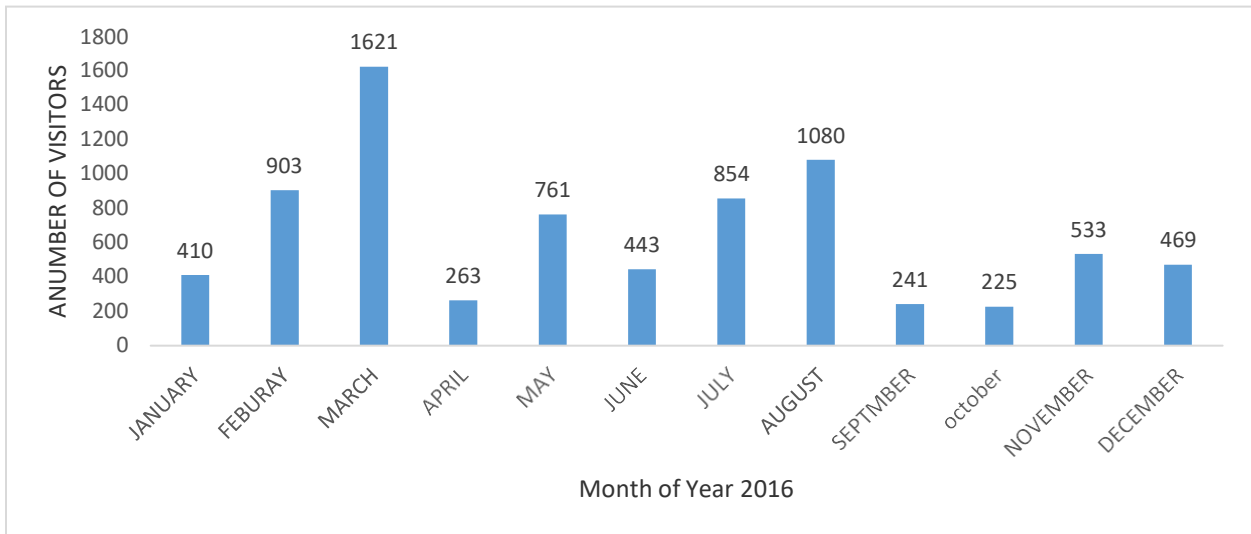


Figure 2: Monthly Total Number of Visitors to FUNAAB ZOO PARK IN YEAR 2016.

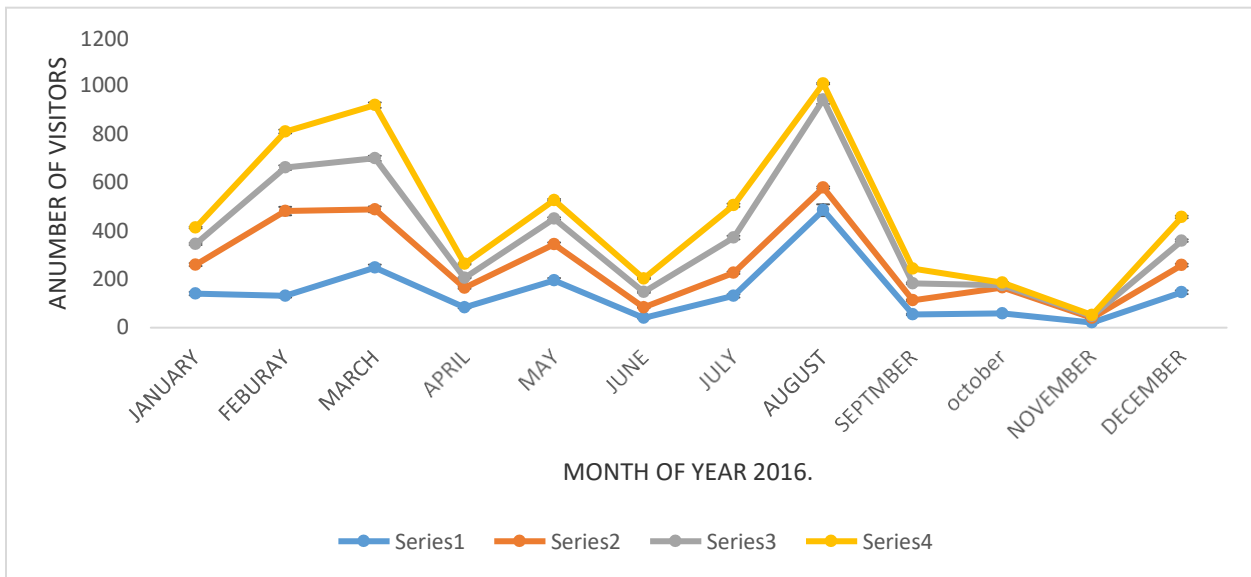
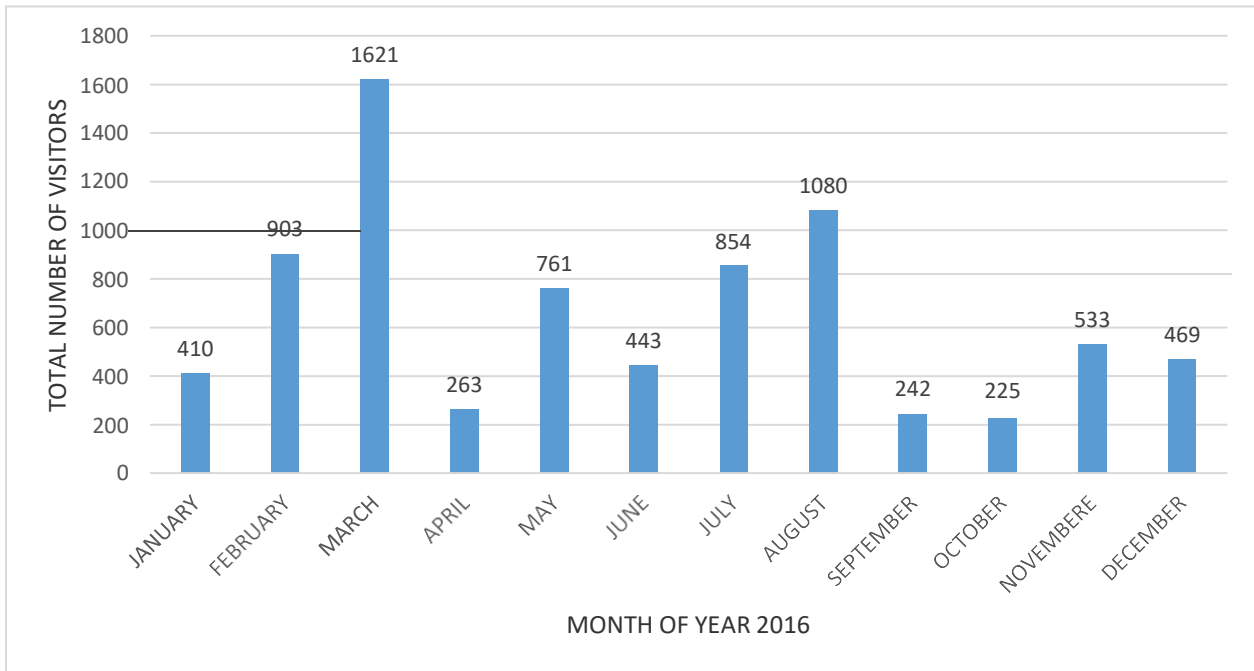
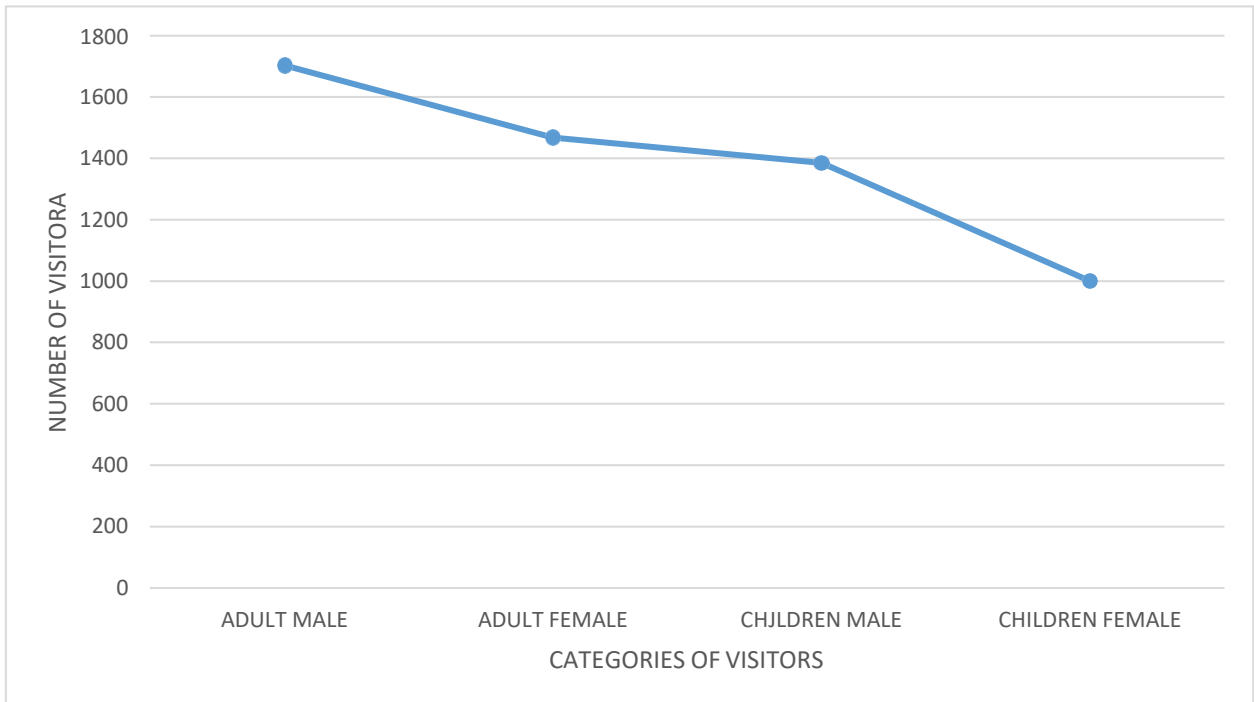


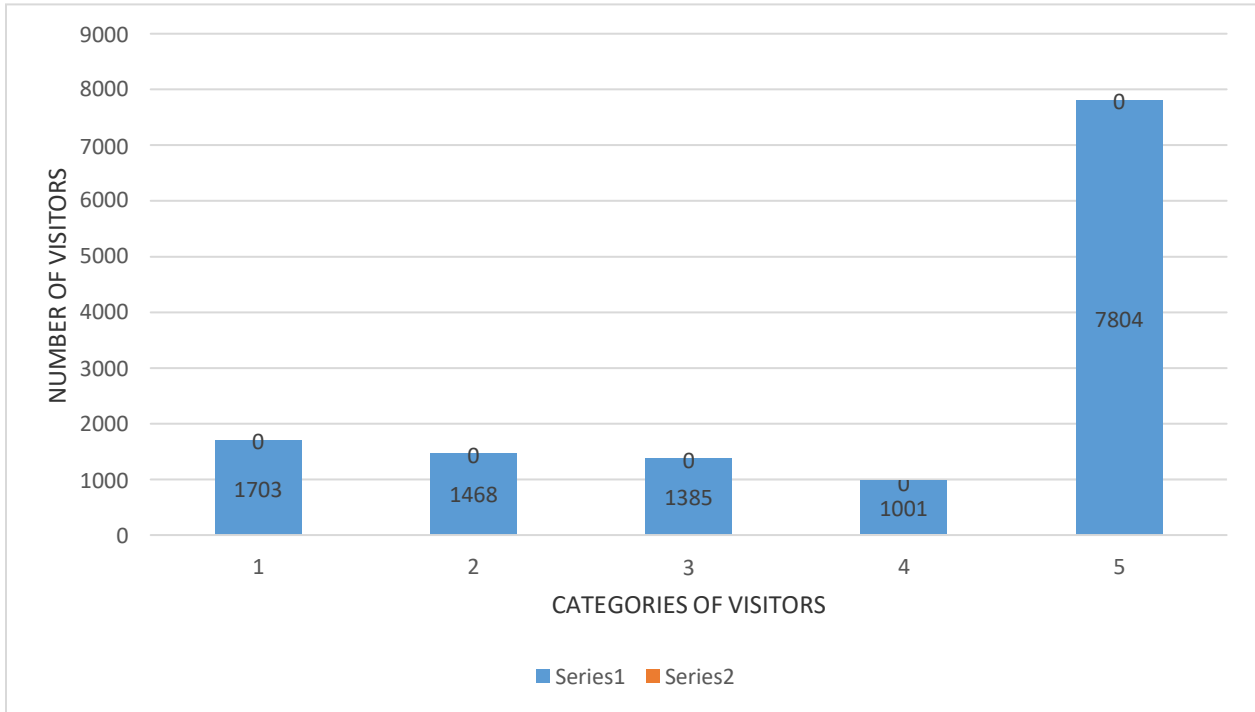
Figure 3: Monthly Total Number of Categories of Visitors to FUNAAB ZOO PARK IN YEAR 2016



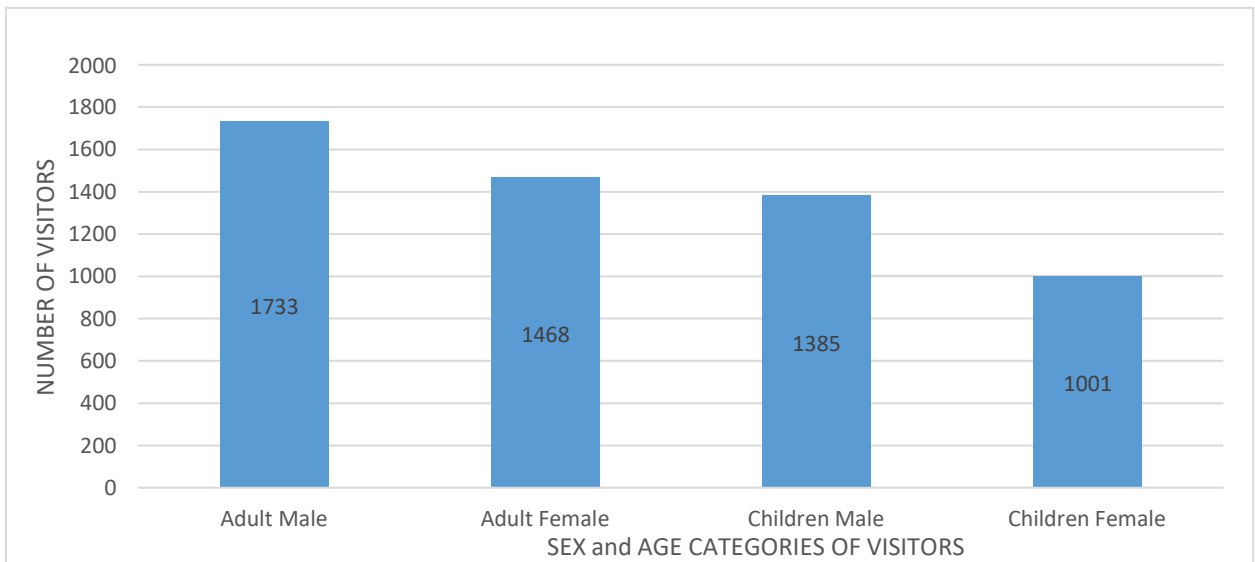
MONTHLY TOTAL NUMBER OF VISITORS TO FUNAAB ZOO PARK IN YEAR 2016



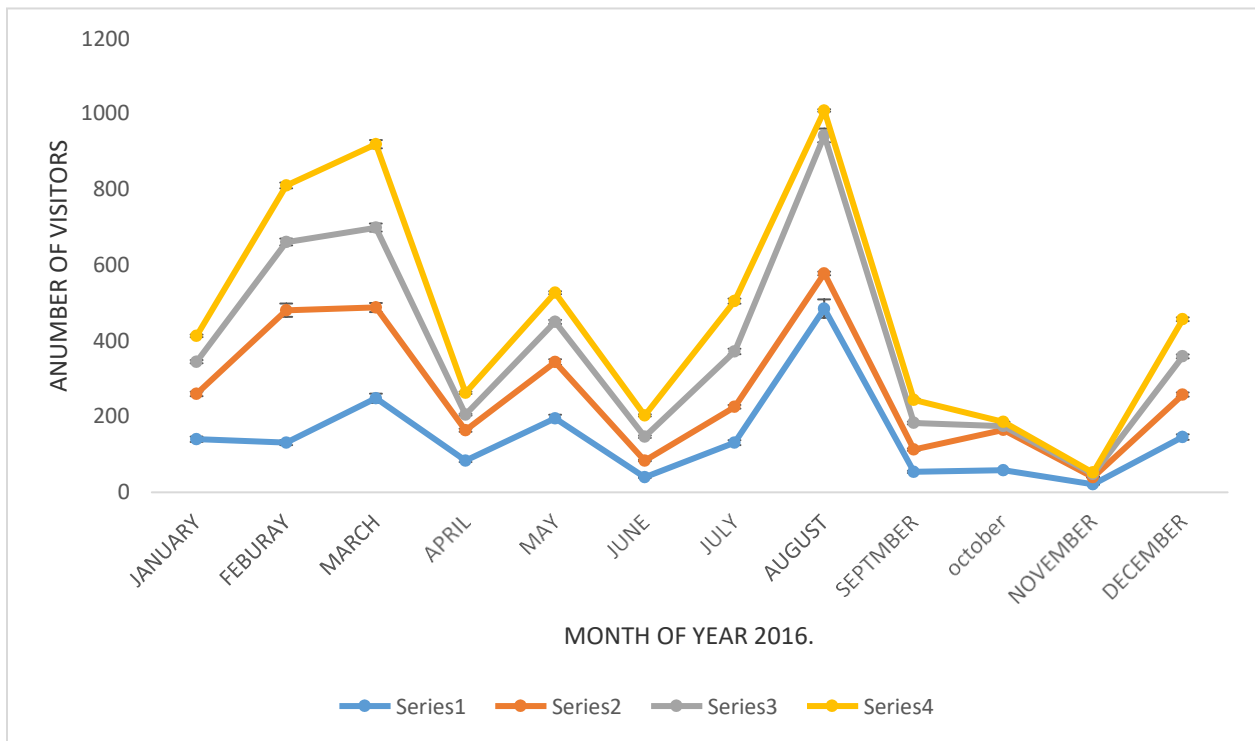
COMPARISON BY CATEGORIES OF TOTAL NUMBER OF VISITORS TO FUNAAB ZOO PARK IN YEAR 2016.



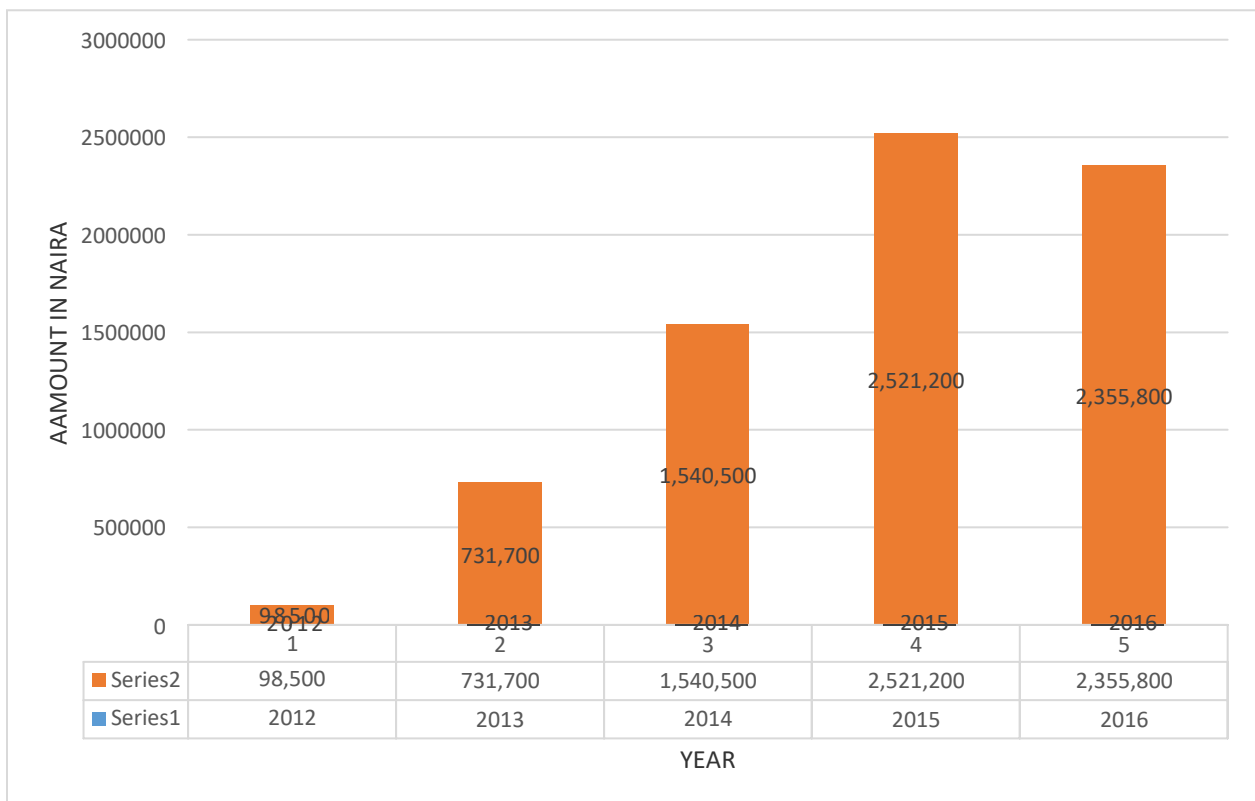
COMPARISON OF SEX CATEGORIES AND TOTAL NUMBER OF VISTORS TO FUNAAB ZOO PARK IN YEAR 2016.



Sex and Age Categories of Visitors to FUNAAB ZOO Park in Year 2016



Monthly Total Number of Categories of Visitors to FUNAAB ZOO PARK IN YEAR 2016



TREND IN GATE FEE REVENUE GENERATED IN FUNAAB ZOO PARK 2012- 2016



### **3.24 DIRECTORATE OF ACADEMIC PLANNING**

The Directorate of Academic Planning or Academic Planning Unit as it is fondly called is a directorate in its own right headed by a director who is responsible directly to the Deputy Vice Chancellor (DVC) Academics and the Vice Chancellor.

The directorate is made of committed and dedicated workers who are saddled with the responsibility of making sure the academic goals of the University are achievable. They are responsible for the planning of the academic curriculum to conform with the National University Commission Benchmark Minimum Academic Standard (NUC-BMAS). They carry out mock-accreditation exercise which precedes the NUC-Accreditation exercise and helps the University achieve full accreditation of academic programmes.

The Academic Curricula was also repackaged in line with the global best practices which is now in conformity with the Benchmark Minimum Academic Standard (BMAS) to make the graduates of the University marketable locally and in the world at large.

The directorate facilitates trainings and workshops for the academic community such as ADAPTI – Advanced Digital Appreciation Programme for Tertiary Institutions and Capacity Building Workshop for Head of Departments, Deans and Directors.

The directorate is also responsible for the successful compilation of various academic publications such as:

- **University Annual Reports**
- **University Statistical Digest**
- **New Academic Brief**
- **FUNAAB 2014-2020 Strategic Plan.**



**Professor Olukayode D. Akinyemi**  
**Director, Academic Planning**

## CHAPTER FOUR

### 4.0 STUDENTS' ENROLMENT AND STAFF PROFILE

#### 4.1 Undergraduate Students' Enrolment by Gender and Level for 2015/2016 Academic Session

COLLEGE/ DEPARTMENT	100 LEVEL			200 LEVEL			300 LEVEL			400 LEVEL			500 LEVEL			600 LEVEL			GRAND TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
<b>COLLEGE OF AGRIC. MGT AND RURAL DEVT.</b>																					
Department of Agricultural Economics and Farm Management	64	30	94	73	35	108	64	44	108	56	46	102	72	57	129	0	0	0	329	212	541
Department of Agricultural Extension and Rural Development	51	40	91	73	31	104	77	34	111	60	32	92	86	46	132	0	0	0	347	183	530
Department of Agricultural Administration	43	37	80	64	15	79	47	47	94	59	33	92	70	33	103	0	0	0	283	165	448
Department of Communications and General Studies			0			0			0			0			0	0	0	0	0	0	0
<b>Sub-Total</b>	<b>158</b>	<b>107</b>	<b>265</b>	<b>210</b>	<b>81</b>	<b>291</b>	<b>188</b>	<b>125</b>	<b>313</b>	<b>175</b>	<b>111</b>	<b>286</b>	<b>228</b>	<b>136</b>	<b>364</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>959</b>	<b>560</b>	<b>1,519</b>
<b>COLLEGE OF ANIMAL SCIENCE AND LIVESTOCK PRODUCTION</b>																					
Department of Animal Breeding and Genetics	56	25	81	42	46	88	52	45	97	62	42	104	73	32	105	0	0	0	285	190	475
Department of Animal Nutrition	60	39	99	52	33	85	60	44	104	42	56	98	92	37	129	0	0	0	306	209	515
Department of Animal Physiology	32	37	69	45	38	83	43	43	86	52	43	95	65	63	128	0	0	0	237	224	461
Department of Animal Production and Health	75	18	93	72	30	102	66	26	92	77	34	111	99	54	153	0	0	0	389	162	551
Department of Pasture and Range Management	61	21	82	41	38	79	51	42	93	40	51	91	82	38	120	0	0	0	275	190	465

<b>Sub-Total</b>	<b>284</b>	<b>140</b>	<b>424</b>	<b>252</b>	<b>185</b>	<b>437</b>	<b>272</b>	<b>200</b>	<b>472</b>	<b>273</b>	<b>226</b>	<b>499</b>	<b>411</b>	<b>224</b>	<b>635</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,492</b>	<b>975</b>	<b>2,467</b>
<b>COLLEGE OF PLANT SCIENCE AND CROP PRODUCTION</b>																					
Department of Crop Protection	53	14	67	51	19	70	40	46	86	40	53	93	66	59	125	0	0	0	250	191	441
Department of Horticulture	52	18	70	30	23	53	37	48	85	61	17	78	77	54	131	0	0	0	257	160	417
Department of Plant Breeding and Seed Technology	62	20	82	54	19	73	43	43	86	43	49	92	102	16	118	0	0	0	304	147	451
Department of Plant Physiology and Crop Production	53	23	76	48	28	76	48	28	76	48	32	80	88	28	116	0	0	0	285	139	424
Department of Soil Science and Land Management	82	6	88	67	17	84	51	38	89	82	8	90	107	12	119	0	0	0	389	81	470
<b>Sub-Total</b>	<b>302</b>	<b>81</b>	<b>383</b>	<b>250</b>	<b>106</b>	<b>356</b>	<b>219</b>	<b>203</b>	<b>422</b>	<b>274</b>	<b>159</b>	<b>433</b>	<b>440</b>	<b>169</b>	<b>609</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,485</b>	<b>718</b>	<b>2,203</b>
<b>COLLEGE OF FOOD TECHNOLOGY AND HUMAN ECOLOGY</b>																					
Department of Food Science and Technology	15	59	74	25	55	80	42	46	88	29	63	92	32	86	118	0	0	0	143	309	452
Department of Home Science Management	6	34	40	27	61	88	27	58	85	40	68	108	0	0	0	0	0	0	100	221	321
Department of Hospitality and Tourism	20	34	54	11	61	72	18	55	73	25	59	84	29	47	76	0	0	0	103	256	359
Department of Nutrition and Dietetics	5	58	63	11	64	75	18	58	76	20	62	82	0	0	0	0	0	0	54	242	296
<b>Sub-Total</b>	<b>46</b>	<b>185</b>	<b>231</b>	<b>74</b>	<b>241</b>	<b>315</b>	<b>105</b>	<b>217</b>	<b>322</b>	<b>114</b>	<b>252</b>	<b>366</b>	<b>61</b>	<b>133</b>	<b>194</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400</b>	<b>1,028</b>	<b>1,428</b>
<b>COLLEGE OF BIOSCIENCES SCIENCES</b>																					
Department of Biochemistry	33	42	75	38	51	89	38	37	75	44	66	110	0	0	0	0	0	0	153	196	349
Department of Microbiology	35	46	81	40	63	103	35	59	94	43	73	116	0	0	0	0	0	0	153	241	394

Department of Pure and Applied Botany	18	27	45	23	22	45	12	35	47	25	22	47	0	0	0	0	0	0	78	106	184
Department of Pure and Applied Zoology	15	28	43	19	22	41	26	25	51	37	38	75	0	0	0	0	0	0	97	113	210
<b>Sub-Total</b>	<b>101</b>	<b>143</b>	<b>244</b>	<b>120</b>	<b>158</b>	<b>278</b>	<b>111</b>	<b>156</b>	<b>267</b>	<b>149</b>	<b>199</b>	<b>348</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>481</b>	<b>656</b>	<b>1,137</b>

**COLLEGE OF PHYSICAL SCIENCES**

Department of Chemistry	39	39	78	53	30	83	61	38	99	45	40	85	0	0	0	0	0	198	147	345
Department of Computer Science	76	8	84	71	22	93	51	24	75	72	29	101	0	0	0	0	0	270	83	353
Department of Mathematics	68	9	77	62	14	76	62	17	79	81	11	92	0	0	0	0	0	273	51	324
Department of Physics	78	8	86	75	12	87	63	8	71	90	3	93	0	0	0	0	0	306	31	337
Department of Statistics	55	12	67	48	19	67	64	12	76	91	13	104	0	0	0	0	0	258	56	314
<b>Sub-Total</b>	<b>316</b>	<b>76</b>	<b>392</b>	<b>309</b>	<b>97</b>	<b>406</b>	<b>301</b>	<b>99</b>	<b>400</b>	<b>379</b>	<b>96</b>	<b>475</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,305</b>	<b>368</b>	<b>1,673</b>

**COLLEGE OF ENVIRONMENTAL RESOURCE MANAGEMENT**

Department of Aquaculture and Fisheries Management	48	38	86	47	41	88	47	52	99	60	35	95	51	65	116	0	0	0	253	231	484
Department of Environmental Management and Toxicology	38	44	82	41	46	87	45	41	86	36	42	78	45	36	81	0	0	0	205	209	414
Department of Forestry and Wildlife Management	77	13	90	59	13	72	51	55	106	64	26	90	76	29	105	0	0	0	327	136	463
Department of Water Resources Mgt. and Agrometrology	76	4	80	69	9	78	81	16	97	71	12	83	93	9	102	0	0	0	390	50	440

<b>Sub-Total</b>	<b>239</b>	<b>99</b>	<b>338</b>	<b>216</b>	<b>109</b>	<b>325</b>	<b>224</b>	<b>164</b>	<b>388</b>	<b>231</b>	<b>115</b>	<b>346</b>	<b>265</b>	<b>139</b>	<b>404</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,175</b>	<b>626</b>	<b>1,801</b>
<b>COLLEGE OF ENGINEERING</b>																						
Department of Agricultural Engineering	30	0	30	33	8	41	38	8	46	35	5	40	43	3	46	0	0	0	0	179	24	203
Department of Civil Engineering	34	1	35	32	5	37	38	3	41	39	0	39	39	5	44	0	0	0	0	182	14	196
Department of Electrical Engineering	35	2	37	34	7	41	36	4	40	37	3	40	55	4	59	0	0	0	0	197	20	217
Department of Mechanical Engineering	36	3	39	35	3	38	38	3	41	45	0	45	46	1	47	0	0	0	0	200	10	210
Department of Mechatronic Engineering	31	3	34	33	1	34			0			0			0	0	0	0	0	64	4	68
<b>Sub-Total</b>	<b>166</b>	<b>9</b>	<b>175</b>	<b>167</b>	<b>24</b>	<b>157</b>	<b>150</b>	<b>18</b>	<b>168</b>	<b>156</b>	<b>8</b>	<b>164</b>	<b>183</b>	<b>13</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>822</b>	<b>72</b>	<b>894</b>
<b>COLLEGE OF MANAGEMENT SCIENCES</b>																						
Department of Accounting	76	63	139	49	82	131	46	61	107	61	80	141	0	0	0	0	0	0	0	232	286	518
Department of Banking and Finance	64	66	130	43	64	107	47	58	105	53	52	105	0	0	0	0	0	0	0	207	240	447
Department of Business Administration	60	80	140	73	64	137	55	76	131	52	59	111	0	0	0	0	0	0	0	240	279	519
Department of Economics	71	60	131	66	57	123	51	53	104	61	47	108	0	0	0	0	0	0	0	249	217	466
Department of Entrepreneurial Studies	54	74	128	54	74	128	77	72	149	75	77	152	0	0	0	0	0	0	0	260	297	557
<b>Sub-Total</b>	<b>325</b>	<b>343</b>	<b>668</b>	<b>285</b>	<b>341</b>	<b>626</b>	<b>276</b>	<b>320</b>	<b>596</b>	<b>302</b>	<b>315</b>	<b>617</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,188</b>	<b>1,319</b>	<b>2,507</b>
<b>COLLEGE OF VETERINARY MEDICINE</b>																						
Veterinary Medicine	25	11	36	25	12	37	22	14	36	23	16	39	30	12	42	19	9	28	144	74	218	
<b>GRAND TOTAL</b>	<b>1,962</b>	<b>1,194</b>	<b>3,156</b>	<b>1,908</b>	<b>1,354</b>	<b>3,228</b>	<b>1,868</b>	<b>1,516</b>	<b>3,384</b>	<b>2,076</b>	<b>1,497</b>	<b>3,573</b>	<b>1,618</b>	<b>826</b>	<b>2,444</b>	<b>19</b>	<b>99</b>	<b>288</b>	<b>144</b>	<b>9,451</b>	<b>6,396</b>	<b>15,847</b>

## 4.2 POSTGRADUATE SCHOOL ENROLMENT STATISTICS

POSTGRADUATE SCHOOL ENROLMENT STATISTICS (2015/2016) SESSION							
College/Dept	Full-Time		Full-Time Total	Part-Time		Part-Time Total	Grand Total
	F	M		F	M		
<b>CEADESE</b>	<b>43</b>	<b>57</b>	<b>100</b>				<b>100</b>
<b>CEADESE</b>	<b>43</b>	<b>57</b>	<b>100</b>				<b>100</b>
Master	21	28	49				49
Phd	22	29	51				51
<b>COLAMRUD</b>	<b>97</b>	<b>108</b>	<b>205</b>	<b>22</b>	<b>45</b>	<b>67</b>	<b>272</b>
<b>AEFM</b>	<b>33</b>	<b>47</b>	<b>80</b>	<b>16</b>	<b>39</b>	<b>55</b>	<b>135</b>
Master	13	22	35	15	35	50	85
Master(Professional)	4	10	14		3	3	17
MPhil	4	8	12		1	1	13
Phd	12	7	19	1		1	20
<b>AERD</b>	<b>31</b>	<b>29</b>	<b>60</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>65</b>
Master	20	15	35		2	2	37
MPhil	1	4	5				5
Pgd	1	5	6		1	1	7
Phd	9	5	14	2		2	16
<b>AGAD</b>	<b>7</b>	<b>11</b>	<b>18</b>		<b>1</b>	<b>1</b>	<b>19</b>
Master	6	10	16				16
Pgd	1	1	2		1	1	3
<b>CGS</b>	<b>26</b>	<b>21</b>	<b>47</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>53</b>
Master	18	9	27	3	1	4	31
MPhil	3	5	8		1	1	9
Pgd	4	7	11				11
Phd	1		1	1		1	2
<b>COLANIM</b>	<b>46</b>	<b>90</b>	<b>136</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>146</b>
<b>ABG</b>	<b>10</b>	<b>20</b>	<b>30</b>		<b>2</b>	<b>2</b>	<b>32</b>
Master	9	14	23		1	1	24
MPhil		1	1				1
Phd	1	5	6		1	1	7
<b>ANN</b>	<b>11</b>	<b>13</b>	<b>24</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>26</b>
Master	8	6	14	1	1	2	16
MPhil	2	2	4				4
Phd	1	5	6				6
<b>ANP</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>15</b>
Master	4	6	10				10
Phd	1	2	3	1	1	2	5
<b>APH</b>	<b>20</b>	<b>38</b>	<b>58</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>60</b>
Master	13	22	35				35
MPhil	1	3	4				4
Pgd	1	3	4				4
Phd	5	10	15	1	1	2	17
<b>PRM</b>		<b>11</b>	<b>11</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>13</b>
Master		8	8		1	1	9
Phd		3	3	1		1	4
<b>COLBIOS</b>	<b>77</b>	<b>71</b>	<b>148</b>	<b>6</b>	<b>2</b>	<b>8</b>	<b>156</b>
<b>BCM</b>	<b>20</b>	<b>22</b>	<b>42</b>	<b>1</b>		<b>1</b>	<b>43</b>
Master	11	15	26				26
MPhil	5	6	11				11
Phd	4	1	5	1		1	6
<b>MCB</b>	<b>34</b>	<b>24</b>	<b>58</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>63</b>
Master	27	18	45	3	1	4	49
MPhil	4	2	6				6
Phd	3	4	7	1		1	8
<b>PAB</b>	<b>8</b>	<b>8</b>	<b>16</b>				<b>16</b>
Master	4	6	10				10
MPhil	1		1				1
Phd	3	2	5				5
<b>PAZ</b>	<b>15</b>	<b>17</b>	<b>32</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>34</b>
Master	11	9	20				20
MPhil	3	2	5				5
Phd	1	6	7	1	1	2	9

<b>COLENG</b>	<b>2</b>	<b>50</b>	<b>52</b>		<b>2</b>	<b>2</b>	<b>54</b>
<b>AGE</b>	<b>1</b>	<b>20</b>	<b>21</b>				<b>21</b>
Master	1	16	17				17
MPhil		2	2				2
Phd		2	2				2
<b>CVE</b>	<b>1</b>	<b>12</b>	<b>13</b>				<b>13</b>
Master	1	5	6				6
MPhil		3	3				3
Phd		4	4				4
<b>EEG</b>		<b>8</b>	<b>8</b>	<b>1</b>	<b>1</b>		<b>9</b>
Phd		8	8	1	1		9
<b>MCE</b>		<b>10</b>	<b>10</b>	<b>1</b>	<b>1</b>		<b>11</b>
MPhil		2	2	1	1		3
Phd		8	8				8
<b>COLERM</b>	<b>62</b>	<b>94</b>	<b>156</b>	<b>10</b>	<b>14</b>	<b>24</b>	<b>180</b>
<b>AQFM</b>	<b>9</b>	<b>19</b>	<b>28</b>		<b>1</b>	<b>1</b>	<b>29</b>
Master	6	8	14				14
MPhil		4	4				4
Pgd		1	1				1
Phd	3	6	9	1	1		10
<b>EMT</b>	<b>35</b>	<b>36</b>	<b>71</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>88</b>
Master	23	22	45	1	2	3	48
Master(Professional)				7	7	14	14
MPhil	5	3	8				8
Phd	7	11	18				18
<b>FWM</b>	<b>14</b>	<b>24</b>	<b>38</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>43</b>
Master	8	15	23		2	2	25
MPhil	3	3	6				6
Phd	3	6	9	1	2	3	12
<b>WRM</b>	<b>4</b>	<b>15</b>	<b>19</b>	<b>1</b>		<b>1</b>	<b>20</b>
Master	3	14	17				17
Phd	1	1	2	1		1	3
<b>COLFHEC</b>	<b>96</b>	<b>26</b>	<b>122</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>127</b>
<b>FST</b>	<b>45</b>	<b>14</b>	<b>59</b>	<b>1</b>		<b>1</b>	<b>60</b>
Master	34	7	41				41
MPhil		1	1				1
Phd	11	6	17	1		1	18
<b>HSM</b>	<b>13</b>	<b>1</b>	<b>14</b>				<b>14</b>
Master	12		12				12
MPhil	1	1	2				2
<b>NUD</b>	<b>38</b>	<b>11</b>	<b>49</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>53</b>
Master	26	8	34				34
MPhil	3	1	4				4
Phd	9	2	11	3	1	4	15
<b>COLPHYS</b>	<b>55</b>	<b>148</b>	<b>203</b>	<b>19</b>	<b>40</b>	<b>59</b>	<b>262</b>
<b>CHM</b>	<b>18</b>	<b>34</b>	<b>52</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>55</b>
Master	11	30	41	2	1	3	44
MPhil	3	3	6				6
Phd	4	1	5				5
<b>CSC</b>	<b>21</b>	<b>48</b>	<b>69</b>	<b>16</b>	<b>30</b>	<b>46</b>	<b>115</b>
Master	16	39	55	3	2	5	60
Master(Professional)				5	14	19	19
MPhil	1	1	2	2	1	3	5
Pgd				5	12	17	17
Phd	4	8	12	1	1	2	14
<b>MTS</b>	<b>5</b>	<b>8</b>	<b>13</b>				<b>13</b>
Master	3	4	7				7
MPhil	1	1	2				2
Phd	1	3	4				4
<b>PHS</b>	<b>3</b>	<b>42</b>	<b>45</b>				<b>45</b>
Master	1	16	17				17
MPhil	1	14	15				15
Phd	1	12	13				13
<b>STS</b>	<b>8</b>	<b>16</b>	<b>24</b>	<b>1</b>	<b>9</b>	<b>10</b>	<b>34</b>
Master	7	15	22				22
MPhil	1		1				1
Pgd				1	8	9	9
Phd		1	1		1	1	2
<b>COLPLANT</b>	<b>59</b>	<b>81</b>	<b>140</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>150</b>

<b>CPT</b>	<b>15</b>	<b>22</b>	<b>37</b>	<b>2</b>		<b>2</b>	<b>39</b>
Master	5	13	18				18
MPhil	4		4				4
Pgd	2	3	5				5
Phd	4	6	10	2		2	12
<b>HORT</b>	<b>5</b>	<b>9</b>	<b>14</b>		<b>1</b>	<b>1</b>	<b>15</b>
Master	1	5	6		1	1	7
MPhil	2		2				2
Pgd		2	2				2
Phd	2	2	4				4
<b>PBST</b>	<b>12</b>	<b>17</b>	<b>29</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>33</b>
Master	8	9	17				17
MPhil	1	1	2				2
Pgd	2		2				2
Phd	1	7	8	3	1	4	12
<b>PPCP</b>	<b>7</b>	<b>19</b>	<b>26</b>				<b>26</b>
Master	4	9	13				13
Pgd	1	2	3				3
Phd	2	8	10				10
<b>SSLM</b>	<b>20</b>	<b>14</b>	<b>34</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>37</b>
Master	9	9	18				18
MPhil	2		2		1	1	3
Pgd	3	2	5	1		1	6
Phd	6	3	9		1	1	10
<b>COLVET</b>	<b>6</b>	<b>9</b>	<b>15</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>19</b>
<b>VET</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>11</b>
Master	2	3	5				5
MPhil	1	1	2				2
Phd	1		1	1	2	3	4
<b>VHR</b>	<b>1</b>	<b>4</b>	<b>5</b>				<b>5</b>
Master	1	4	5				5
<b>VMC</b>	<b>1</b>		<b>1</b>		<b>1</b>	<b>1</b>	<b>2</b>
Phd	1		1		1	1	2
<b>VPP</b>		<b>1</b>	<b>1</b>				<b>1</b>
Master		1	1				1
<b>Grand Total</b>	<b>543</b>	<b>734</b>	<b>1277</b>	<b>72</b>	<b>117</b>	<b>189</b>	<b>1466</b>

#### 4.3 2016 RECORD OF STUDENTS' ENROLMENT BY PROGRAMME IN INHURD

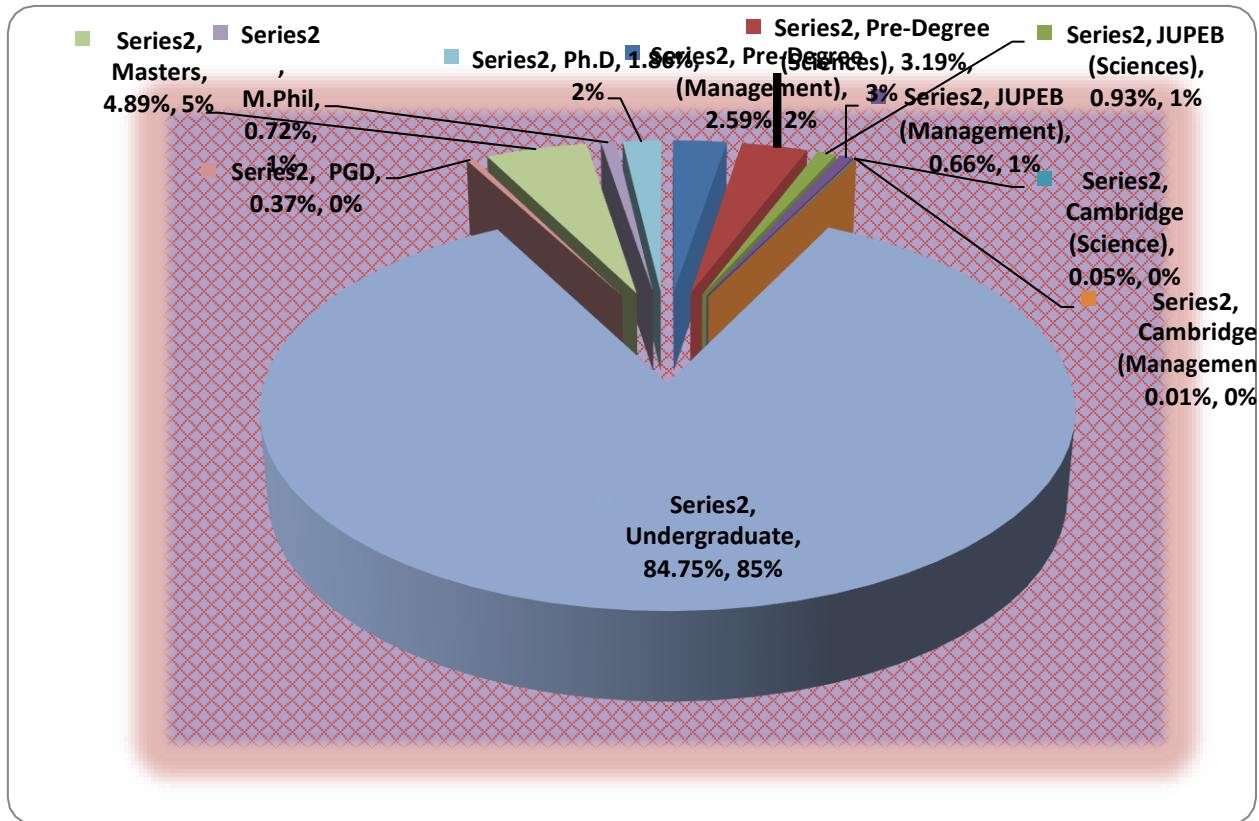
S/N	PROGRAMME	GENDER		TOTAL
		MALE	FEMALE	
1.	PRE-DEGREE SCIENCE	426	170	596
2.	PRE-DEGREE MANAGEMENT	161	323	484
3.	JUPEB SCIENCE	109	64	173
4.	JUPEB MANAGEMENT	58	65	123
5.	CAMBRIDGE SCIENCE	6	4	10
6.	CAMBRIDGE MANAGEMENT	-	1	1
	<b>TOTAL</b>	<b>760</b>	<b>627</b>	<b>1387</b>



**4.4 FUNAAB Student's Enrolment by Mode of Study for 2015/2016 Academic Session**

Category	Full-Time			Part-Time			Grand Total
	Male	Female	Total	Male	Female	Total	
Pre-Degree (Management Sciences)	161	323	484				484
Pre-Degree (Sciences)	426	170	596				596
JUPEB (Sciences)	109	64	173				173
JUPEB (Management)	58	65	123				123
Cambridge (Science)	6	4	10				10
Cambridge (Management)	0	1	1				1
Undergraduate	9,451	6,396	15,847				15,847
Postgraduate, PGD	26	15	41	22	7	29	70
Postgraduate, Masters	452	350	802	72	40	112	914
Postgraduate, M.Phil	71	54	125	7	2	9	134
Postgraduate, Ph.D	184	124	308	16	23	39	347
<b>Total</b>	<b>10944</b>	<b>7566</b>	<b>18510</b>	<b>117</b>	<b>72</b>	<b>189</b>	<b>18699</b>

#### 4.5 Students' Enrolment by Mode of Study in Percentage for 2015/2016 Academic Session



## 4.6 APPOINTMENT AND PROMOTIONS INTO PROFESSORIAL CADRE

### 4.6.1 Professors



*Prof. Olusegun Folorunsho,  
Professor of Computer  
Science*



*Prof. Flora Oluwafemi,  
Professor of Food  
Microbiology and Safety*



*Prof. Taofik Shittu,  
Prof. of Food Science  
and Technology*



*Prof. Adebukunola Omemu,  
Professor of Food Microbi-  
ology and Safety*



*Prof. Adesina Sodiya,  
Professor of Computer  
Science and Security*



*Prof. Dorcas Adegbite,  
Professor of Agricultural  
Finance and Policy Issues*



*Prof. Aderonke Akintokun,  
Professor of Agricultural  
Microbiology*



*Prof. Mathew Omeike,  
Professor of Ordinary  
Differential Equation*



*Prof. Joan Babajide,  
Professor of Food Process-  
ing and Preservation*



*Prof. Akinlola Akinlabi,  
Professor of Industrial  
Chemistry*



*Prof. Olubukola Isah,  
Professor of Ruminant  
Production*



*Prof. Akin Popoola,  
Professor of Plant  
Pathology*



*Prof. Eniola Fabusoro,  
Professor of Agricultural  
Extension and Rural  
Development*



*Prof. Iyabo Kehinde,  
Professor of Botany  
(Plant Pathology)*



*Prof. Adebayo Shittu,  
Professor of Agricultural and  
Resource Economics*



*Prof. Oluwafunmilayo Idowu,  
Professor of Parasitology*



*Prof. Prof Luke Okojie,  
Professor of Agricultural  
Development and Environ-  
mental Economics*



*Prof. Julia Eni-Olorunda,  
Professor of Intellectual  
Disabilities*



*Prof. Taofeek Banmike,  
Professor of Agricultural  
Communication and  
Development Issues*



*Prof. Olufemi Idowu,  
Professor of Hydrology and  
Water Resources*



*Prof. Oluwakemi Fajoku,  
Professor of Agricultural  
Administration*



*Prof. Adebayo Akinloye,  
Professor of Veterinary  
Anatomy*



*Prof. Enock Dare,  
Professor of Materials Chem-  
istry and Nanotechnology*

#### 4.6.2 Readers

	Name	Department	New Position
•	S. O. Adeogun	AGAD	Reader in Agricultural Administration
•	R. A. Oyeyinka	AGAD	Reader in Agricultural Administration
•	O. A. Adebowale	AERD	Reader in Agricultural Development and Innovation Communication
•	B. S. Sotiloye	CGNS	Reader in Teaching English as A Second Language
•	A. O. Adebambo	ABG	Reader in Animal Breeding and Genetics
•	A. V. Jegede	ANN	Reader in Monogastric Animal Nutrition
•	O. O. Adewunmi	APH	Reader in Ruminant Animal Production
•	M. O. Sogunle	APH	Reader in Monogastric Animal Production
•	S. O. Kareem	Microbiology	Reader in Industrial Microbiology and Biotechnology
•	O. B. Shittu	Microbiology	Reader in Environmental Microbiology
•	K. O. Ademolu	Pure & Applied Zoology	Reader in Animal Physiology
•	G. A. Dedeke	Pure & Applied Zoology	Reader in Eco-Physiology
•	O. J. Olaoye	AQFM	Principal Extension Fellow in Fisheries Extension
•	I. O. Taiwo	AQFM	Principal Extension Fellow in Fisheries Ecology/Management
•	A. A. Adebowale	FST	Reader in Food Processing and Storage Technology
•	A. O. Obadina	FST	Reader in Food Science Technology
•	M. A. Idowu	Chemistry	Reader in Parasitology
•	O. A. Ojesanmi	Computer Science	Reader in Computer Science Networking
•	I. A. Osinuga	Mathematics	Reader in Mathematics (Optimization)
•	A. A. Osipitan	CPT	Reader in Crop Protection Entomology
•	O. O. Olubode	Horticulture	Reader in Pomology and Cropping System
•	A. W. Salau	Horticulture	Reader in Olericulture
•	O. R. Adeyemi	PPCP	Reader in Weed Science
•	F. O. Olufemi	Vet. Micro. Parasitology	Reader in Veterinary Microbiology
•	J. O. Olukunle	Vet. Physiology and Pharm.	Reader in Veterinary Physiology and Pharmacology
•	F. O. Ajegbomogun	'Nimbe Adedipe Library	Associate Librarian in Library Management Use and Users' Study
•	F. N. Onifade	'Nimbe Adedipe Library	Associate Librarian in Library Management Use- and Users' Study

## CHAPTER FIVE

### 5.0 RESEARCH, GRANTS, CONFERENCES, STAFF TRAINING & DEVELOPMENT AND ENDOWMENTS & AWARDS

#### 5.1 RESEARCH OUTPUT OF THE Ph.D GRADUATES FOR 2015/2016 SESSION

S/N	<b>College/Department: COLAMRUD/Agricultural Extension and Rural Development</b>	
	<b>Thesis</b>	<b>Name of Researcher</b>
i.	Determinants of Fish Farmers' Adoption of Improved Hatchery Practices in Lagos State, Nigeria	ADEKOYA Adeyemi
ii.	Assessment of Farmers' Utilization of Improved Cultural Management Practices for Quality Cocoa Production in South-West Nigeria	ADIGUN James Kehinde
iii.	Lifestyle Changes, Food Intake and Nutritional Status of Settled Pastoral Fulani Households in North-Central Nigeria	AGBONTALE Agnes Omoneimi
iv.	Comparative Study of Livelihoods among Households, Land-use and Land Cover Change in Surrounding Communities of Kanji Lake National Park, Nigeria.	UMUNNA Mathias Ofonedu
<b>COLAMRUD/Agricultural Economics and Farm Management</b>		
v.	Access to Safe Water, Sanitation and Incidence of Water-Borne Diseases Among Rural Households in Southwest Nigeria	DARE Alaba Modupe
vi.	Socio-Economic Effects of Domestic Remittances on Rural Households in South-West, Nigeria	TOLORUNJU Esther Toluwalope
vii.	Social Capital Microcredit and Rural Household Poverty Status in North-Central Nigeria	LAWAL Mojeed Kolawole
<b>COLANIM/ Animal Breeding and Genetics</b>		
i.	Single Nucleotide Polymorphisms in four Toll Like Receptor Genes in Muturu and White Fulani Cattle challenged with <i>Trypanosoma vivax</i>	AGBALAYA Khadijah Kubura
ii.	Genetic and Genomic Analyses of Exon 1 and 3 of Myostatin Gene among Nigerian and Geographically-Distant Goat Breeds.	SANNI Muyideen Timothy
iii.	Application of Non-Linear Models to the Growth and Development of Nigerian Indigenous and Other Locally Adapted Chickens.	ABE Olugbenga Samson
<b>College/Department: COLANIM/Animal Nutrition</b>		
iv.	Response of Turkeys to Diets Containing	ADEGBENJO Adedotun Ayoade

	Hydrolysed Feather Meal or Blood Meal and the Implications of Protease Enzyme Supplementation	
<b>College/Department: COLANIM/ Animal Physiology</b>		
v.	Influence of Moringa oleifera Leaf Meal on Growth Rate, Blood Parameters and Semen Characteristics of West African Dwarf Bucks.	KAREEM-IBRAHIM Khadeejah Olufunke
vi	Effects of Vitamin E Supplement, Extender Type and Different Protocols on Cryopreserved Sperm Quality of West African Dwarf Bucks	ADEKUNLE Ezekiel Oluwafemi
<b>COLANIM/Animal Production and Health</b>		
vii.	Effect of Oral Administration of Lagenaria breviflora (Robert) Extract on Performance of Meat-Type Chickens Managed on Two Housing Systems.	ADEYEMI Modupeore Abosede
viii.	Responses of Broiler Chickens to Feed Forms Varying Levels and Periods of Quantitative Feed Restrictions	OMOSEBI Damilola Janet
ix	Effect of Mating Ratio, Methods and Periods of Eggs Storage and Age In Lay on the Performance of Japanese Quails	AYOOLA Akeem Ayobami
<b>College/Department: COLBIOS/ Biochemistry</b>		
i.	Cannabinoids-Induced Lipotoxic and Non-Lipotoxic Dyslipidemia in Male Albino Rats	OWOADE Abiodun Olusoji
ii.	Time Course of Arsenic-Induced Dyslipidemia in Male Albino Rats: Comparison Between Pentavalent Inorganic and Organic Arsenic Through Drinking Water	FATOKI John Olabode
iii.	Phytochemical Distribution, Toxicity Status, Antioxidant and Antidiabetic Potentials of Ethanolic Extracts of <i>Sapium ellipticum</i> (Hochst) Pax Leaves	IGHODARO Osasenaga Macdonald
<b>College/Department: COLBIOS/ Microbiology</b>		
iv.	In Vitro and In Vivo Studies of Extracts from Vitellaria paradoxa “Shea Butter” Tree Against Diarrhoeagenic Bacteria	FALANA Monsurat Bolanle
v.	Development of Starter Culture, Critical Control Points and Shelf Stability of “Oso” (Fermented Seeds of <i>Carthomioh altissimum</i> )	JOLAOSHO Adeola Azeezat
vi.	Ethanol Production from Cassava Starch by Protoplast Fusants of Aspergills spp and Yeasts from Palmwine	AKINOLA Tolulope Modupe
vii.	Water Quality and Characterization of Vibrio Species Isolated from Wells Sited Close to Septic	KAYODE-ISOLA Tayo Modupe

	Tanks in Ojo and Badagry, Lagos	
viii.	Characterization and Sensitivity to Antibiotics and Local Herbs of Opportunistic Bacterial Pathogens from Rural Streams in Ijebu North, Ogun State, Nigeria.	EGBERONGBE Haneefat Olabimpe
ix.	Biodegradation of Pharmaceutical Effluents Using Biosurfactant Producing Bacteria from Ogun and Lagos States.	ADEBAJO Seun Owolabi
<b>College/Department: COLBIOS/Pure and Applied Zoology</b>		
x.	Parasitological and Scrological Assessment of Onchocereiasis after a Decade of Ivermectin Treatment: Communal Perception and Migration Studies in Ogun State, Nigeria	SURAKAT Olabanji Ahmed
xi.	Epidemiological Studies of Lymphatic Filariasis in Some Communities of Ose Local Government Area, Ondo State.	ADEKUNLE Oladunni Nimota
xii.	Evaluation and Community Based Acceptability of Rectal Artesunate in the Management of Childhood Malaria Ogun State Nigeria.	AGBEYANGI Oludare Alani
<b>College/Department: COLENG/ Mechanical Engineering</b>		
i.	Characterization and Performance Evaluation of Waste Cooking Oil Biodiesel Fuel Blends in Diesel Engines	SAMUEL Olusegun David
ii.	Development of a Solar Energy Powered Tyre Pressure Control Unit	AMOSUN Semiu Taiwo
iii.	Numerical and Experimental Investigations of Thermo-Mechanical Stress Distribution in Turning Operation	ADEDEJI Kasali Aderinmoye
iv.	Development of Performance Characterization of Solar Thermal-Driven Adsorption Refrigeration System	SANGOTAYO Emmanuel Olayimika
v.	Energy Analysis of Block laying in Outdoor Environment in Ogun State, Nigeria	MUSA Adekunle Ibrahim
<b>College/Department: COLERM/Aquaculture and Fisheries Management</b>		
i.	Adoption of Improved Hatchery Production Technologies of <i>Clarias gariepinus</i> (Burchell, 1822) Among Fish Farmers in Oyo and Osun States, Nigeria	ASHLEY-DEJO Samuel Segun
ii.	Evaluation of the Effects of Natural Preservatives and Packaging Materials on the Shelf Life of Smoked African Mud Catfish <i>Clarias gariepinus</i> (Burchell, 1822)	AYELOJA Ayodeji Ahmed
iii.	Assessment of the Production and Management of	AKINBOTE Rufus Ejilayo

	Economically Important Shellfish Resources of the Coastal Waters of Ondo State, Nigeria	
<b>College/Department: COLERM /Forestry and Wildlife Management</b>		
i.	Ecological Assessment of Medicine Plant Species Among different Forest – Use Types in Olokemeji Forest Reserve, Ogun State	OJEKUNLE Oluseyi Opeyemi
ii.	The Economics and Medicinal Value of Forest Products in the Treatment of Cancer in South-West Nigeria	OSUNDERU Oluwakemi Abosede
iii.	Park Facilities Services and Effective Management of Resources in Relation to Tourism Satisfaction in Four Nigeria National Parks	AKINOLA Olufunlola Odunayo
iv.	Evaluation of Groundwater Recharge in Ogun and Oshun River Basins	OKE Muritala Olaniyi
<b>College/Department: COLFHEC/ Food Science and Technology</b>		
I.	Effect of Moulding and Packaging Materials on Quality Attributes and Storage Stability of “Kokoro” (A Maize Snack)	AYELEYE Francis Bankole
II.	Functional Properties and Quality Attributes of Flour and Thermo-Extrudates from Selected Varieties of Sesame	AYINDE Folashade Adunni
iii.	Optimization of Enzymatic Hydrolysis of Pigeon Pea (Cajanus Cajan) Protein and Characterization of its Hydrolysate	ADENEKAN Monilola Kudirat
iv.	Effects of Smoking Methods and Fish Types on the Quality and Safety of Traditional Smoked Fish	ADEYEYE Samuel Ayofemi Olalekan
v.	Quality Attributes of Flour Noodles Substituted with Cassava Flour and Acetylated Cassava Starch	ONIGBOGI Isaac Olaitan
vi.	Hazard Characterization and Safety Assessment of Traditional Yam Chips Flakes and Flour Produced in Southwest Nigeria	OMOHIMI Celestina Ibitayo
vii.	Nutritional Evaluation and Glycemic Index of Meals Produced from Cocoyam, Plantain and Cow Flour Blends	BOLAJI Olusola Timothy
<b>COLFHEC/Nutrition and Dietetics</b>		
i.	Nutritional Evaluation and Glycemic Index of Meals Produced from Cocoyam, Plantain and Cow Flour Blends	AKINLOTAN Jokodola Victoria
<b>College/Department: COLPHYS/ Chemistry</b>		
i.	Physico-Chemical and Biodegradability Properties of Starch-Low Density Polyethylene Composite	OGUNDIRAN Olusegun Olafimihan



ii.	Green Synthesis, Characterization and Properties of Selected Noble Metal Nanoparticles and Their Nanohybrids	SODEINDE Kehinde Oluseun
iii.	Establishment of Bio-Chemical Composition of Efficacy of Traditionally Used Anti-Malaria Plants Against Plasmodium <i>berghei berghei</i> in Southwest Nigeria	KAREEM Muili Mojisola
<b>College/Department: COLPHYS Computer Science</b>		
i.	A Service-oriented Architecture for Data Interoperability in Web Applications	YUSUF Lateef Oladimeji
<b>College/Department: COLPHYS/ Physics</b>		
i.	Effects of Porosity and Clay Content on Wave Velocities in Porous Media	ABATAN Olufemi Adio
ii.	Estimation of Near-Surface Water Content and Temperature Changes Using Analytical Approach	ALABI Aderemi Alidu
iii.	Determination of Locations of Magnetic Basement from Aeromagnetic Data of Abeokuta Area, South-West Nigeria, Using Continuous Wavelet Transform	ADEWALE Adebambo Oludare
iv.	A Simplified Finite-Difference Scheme for Modeling Seismic Wave Propagation in Elastic, Heterogeneous and Transversely Isotropic Media	AJANI Olumide Oyewale
v.	First Principles Study of Some Cubic Group III-V Semiconductor Alloys	BAMGBOSE Muyiwa Kehinde
vi.	X-Ray Absorption Spectra and Structural, Electronic and Magnetic Properties of Rutile Based Alloys	AYEDUN Funmilayo
<b>College/Department: COLPHYS/Statistics</b>		
vii.	Modelling Nonlinear Dynamical System Using Stochastic Differential Equation.	AKINTUNDE Abosede Adelola
<b>College/Department: COLPLANT/Crop Protection</b>		
i.	Comparative Effects of Neem-Fortified Cassava Peel Powder and Carbonfuran in the Management of Plant Parasitic Nematodes on Sugarcane ( <i>Saccharum officinarum</i> L.) in Nigeria.	SOLOMON Sunday
<b>College/Department: COLPLANT Plant Breeding and Seed Technology</b>		
i.	Digital Imaging Characterization and Potential Longevity of Kenaf ( <i>Hibiscus cannabinus</i> L.) Seeds Using Artificial Ageing Treatments	KEHINDE Tolulope Olaitan
ii.	Studies on Genotype, Cropping Year and Seed Enhancement as Determinants of Seed Yield, Quality and Longevity in Eggplant ( <i>Solanum melongena</i> L)	ESURUOSO Olamide Abimbola

iii.	Effects of Plant Population in Seed Yield Physical Physiological Attributes and Seed Storability of African Yam Bean ( <i>Sphemostylis sternocarpa</i> ) A. Rich	ALEGILEDOYE Abiodun Oladimeji
<b>College/Department: COLPLANT/ Soil Science and Land Management</b>		
i.	Effects of Organic Manure on the Kinetics of Potassium Fixation, release and Uptake by Maize in some soils of Ogun State	TAIWO Adebimpe Abidemi
ii.	Distribution Phytotoxicity Adsorption and Desorption of Zinc in Soils of South-Western Nigeria	ADERANTI Monisade Folashade
iii.	Effects of Topsoil Removal Cropping System and Soil Amendment on Soil Productivity Under Maize and Soybean Cultivation in Benue State, Nigeria	ADAIKWU Odigbo Augustine
<b>College/Department: COLVET/Veterinary Public Health and Reproduction</b>		
i.	Effect of Season, Experimental <i>Trypanosoma brucei</i> and <i>Trypanosoma congolense</i> Infections on Reproduction in West African Dwarf Bucks	OLURODE Sikiru Adetona

## 5.2 Active Externally Funded Research Projects as brought forward from 2015

Title	Funding Agency	Partners	Countries Covered	Start Date	End Date	Total Budget	Principal Investigator
Improving the livelihoods of small scale farmers through access to Growth Markets (Cassava Growth Markets)	European Union	Greenwich University, UK and 6 other institutions	Nigeria, Malawi, Tanzania, Uganda, Ghana, India	June 2012	March 2017	€3.21m	Prof. L.O. Sanni
Sustainable Weed Management Technologies for Cassava Systems in Nigeria	International Institute of Tropical Agriculture (IITA), Nigeria	IITA, Ibadan	Nigeria	Jan 2014	Nov 2018	\$542,553	Prof. S.T.O. Lagoke

Cassava: Adding Value for Africa Phase II (CAVA II)	Bill & Melinda Gates Foundation, USA	IITA, Nigeria; NRI, United Kingdom, CSIR-FRI, Ghana; TFNC, Tanzania; Afrll, Uganda; Chancellor college, University of Malawi	Nigeria, Malawi, Tanzania, Uganda, Ghana, United kingdom	Feb 2014	Mar 2019	\$18.8m	Prof. K. Adebayo
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### 5.3 Active Externally Funded Research Projects initiated in 2016

Title	Funding Agency	Partner	Countries covered	Start date	End date	Total budget	Principal Investigator
Incentivising Adoption of Climate- Smart Practices in Cereals Production In Nigeria- ECOWAS Raaf Pasanao	ECOWAS	AFD	ECOWAS countries	Oct 2016	Oct 2017	€118,956	Prof. A.M. Shittu

### 5.4 Proposed Allocation of TETFund and FUNAAB Grants in 2016

Name of Principal Investigator	Title of the Proposal	Proposed Budget (Naira)
Dr. J.O. Azeez	Evaluation of heavy metal extractive ability of some indigenous plant species in Abeokuta	1,479,500
Prof. C.A. Onifade	Effects of violence against women on the welfare of women and children in Ogun and Kwara state, Nigeria.	1,500,000
Dr. A.O. Oso	Application of innovative technologies in the nutritional enrichment of cassava products and maize equivalent in pig nutrition	1,500,000
Dr. A.O. Oni	Supplementation of cassava peels with cassava leaves and maize cobs from west African dwarf goats	1,500,000

Dr. A.O. Lala	Effect of L-arginine on production performance of guinea fowls	1,499,000
Dr. M. Wheto	Insulin-like growth factor I in chain polymorphism and its effect on reproductive performance of improved Nigeria indigenous	1,489,750
Dr. M.A. Adeleke	Identification and sequence analysis of toll-like receptor genes in association with heamo- protozoan parasite load in improved Nigerian indigenous chickens	1,499,858
Dr. A.S. Adenaike	Comparative evaluation of immune response of Nigerian locally adapted and exotic turkeys to sheep red blood antibodies	1,498,840
Prof. T.O.A. Banmeke	Potentials of disseminating fishery information to artisanal fishermen through SMS in coastal southwest Nigeria	1,472,000
Dr. O.E. Oke	Effect of assess to different legume pastures and its biomass intake on performance and welfare of broilers at different seasons	1,470,000
Dr. O.A. Adebambo	Genomics of salmonella tolerance in the Nigerian local chicken	1,41,670

## 5.5 WORKSHOP ON NUTRITION AND HEALTH EDUCATION FOR SECONDARY SCHOOL YOUTHS



A workshop on Nutrition and Health Education for Secondary School Youths was organised by the Gender Issues and Youth Development Programme (GIYD), Agricultural Media Resources and Extension Centre (AMREC) of the University.

Speaking on the topic, “Youth and Nutrition”, Dr. Catherine Oladoyinbo of the University, said the nutritional status of a person should be balanced through the consumption of diverse food in addition to embarking on regular physical exercises.

The Director, Students’ Industrial Work Experience Scheme (SIWES), Professor Grace Sokoya, in her presentation titled, “Youth, Nutrition and Health”, defined the state of health of an individual as the “complete physical, mental, social and spiritual well-being and not the absence of disease and infirmity”.

The Director of AMREC, Professor Victor Olowe, congratulated the participants for the opportunity they had in attending such a workshop at an early stage of their lives.

Participating secondary schools at the workshop include: FUNAAB International School (FUNIS); Asero High School, Asero; Salawu Abiola Comprehensive High School, Osiele; Nawair-U-Deen Grammar School, Obantoko; Egba Comprehensive High School, Asero and Omolaja Sodipo Memorial Anglican School, Onikolobo; all in Abeokuta, Ogun State.

## 5.6 AMREC EMPOWERS KOLANUT FARMERS



The Agricultural Media Resources and Extension Centre (AMREC) of the University has empowered farmers in the Remo and Ijebu areas of Ogun State with improved Kolanut seedlings, which have potentials for higher yields. Making the presentation during the Capacity Building Training on Production and Processing of Kolanut, the Director of AMREC, Professor Victor Olowe, said the gesture was in line with the extension mandate of the University, aimed at boosting the agricultural enterprise of farmers by empowering them through the replacement of their aged and unproductive Kolanut trees with improved varieties, for higher yield.



*Kolanut Tree*



*Unprocessed Kolanut*



*Processed Kolanut*

## 5.7 NUTRITION SOCIETY OF NIGERIA, OGUN STATE CHAPTER 2015 ANNUAL SYMPOSIUM

The Nutrition Society of Nigeria, Ogun State Chapter, recently met in the University to discuss on how to enhance better healthcare for the people through the consumption of healthy food, during its 2015 Annual Symposium titled, “Nutrition Transition and the Health of Nigerians”.

Welcoming participants, Dr. Wasiu Afolabi, the Chapter Chairman of the Society, who is also the immediate past Deputy Dean, College of Food Science and Human Ecology (COLFHEC) of FUNAAB, appreciated the unalloyed support given by the Vice-Chancellor, Professor Olusola Oyewole, the University Management and corporate sponsors such as *Wyteh Nutritio*, Coca-Cola Bottling Company (Nig.) Plc, Dufil Prima Foods (Nig.) Limited and Nestle Plc, among others. He noted that the Chapter was the first to be inaugurated eight years ago and it had been a yearly tradition of the Society to organise an annual event in a bid to fulfilling its mandate.



While presenting his paper titled, “Dietary Acculturation and Nutrition Transition in Nigeria”, Professor Babatunde Oguntona, defined acculturation as the process by which immigrants adopt the attitudes, values, customs, beliefs, and behaviours of a new culture while dietary acculturation is the process by which immigrants adopt the dietary practices of their host country.

Presenting his paper titled, “Non-Communicable Diseases in Nigeria”, Dr. Ajani Sanusi, Faculty of Public Health, University of Ibadan, said non-communicable diseases accounted for 63 percent

of all deaths globally, as 80 percent of such deaths occur in low/middle income countries while more than 90 million of the deaths happened before the age of 60 years. He highlighted some common non-communicable diseases in Nigeria to include cancers, diabetics, cardiovascular disease, and chronic respiratory disease, among others.

The programme was rounded-off with the presentation of the “Lifetime Membership Award” to Professor Clara Oguntona and the “Great Achiever in Nutrition Award” to Professor Babatunde Oguntona while Professor Lateef Sanni, the Dean, College of Food Science and Human Ecology (COLFHEC), appreciated the keynotes speakers for attending the symposium.



## 5.8 MAIDEN BIENNIAL CONFERENCE OF SOGREDEN



The Society for Grassland Research and Development in Nigeria (SOGREDEN) held its Maiden Biennial Conference, tagged “Towards a Sustainable Utilisation of Forage and Grassland Resources for Improved Livestock Production in Nigeria” in December, 2015. In his speech, the Vice-Chancellor, Professor Olusola Oyewole, charged the Society to play a vital role in resolving the rustling activities that are causing disaffection among traditional herdsmen and indigenous crop farmers in the country.

The President of SOGREDEN, Professor Olufemi Onifade, revealed that the Society was incorporated in November 2010, following the stakeholders’ meeting held in FUNAAB in 2008. Professor Onifade decried the status of the natural grassland resources, which was rapidly declining due to man’s intervention and the adverse effects of climate change, adding that the Society needed to plan ahead for the production of pasture seeds and establish the era in which farmers purchased animals without adequate provision of feed, most especially for the dry season, was long gone.

The President, Nigerian Institute of Animal Science (NIAS), Professor Israel Adu, recalled that the establishment of NIAS by an Act of the Nigerian Parliament, No. 26 of 2007, was amended in April 2015 and saddled with the powers to regulate all matters relating to Animal Husbandry in Nigeria. Professor Adu, a former Vice-Chancellor of the University, stated that Nigeria had about 40 million hectares of grazeable land out of the 93 million hectares of country’s land area, adding that the available grazeable area was under pressure due to the increased number of available livestock, improved health services, land use patterns, effects of climate change, among others.

## 5.9 SOFIIA HOLDS WORKSHOP FOR PG STUDENTS



As part of efforts to enhance capacity building of researchers in the Ivory Towers, the Soils of Forest Islands in Africa (SOFIIA), has organised a Project Capacity Building Workshop for postgraduate students in the Department of Soil Science and Land Management, College of Plant Science and Crop Production (COLPLANT), of the University.

Speaking at the workshop, the Coordinator of SOFIIA Consortium in Nigeria, Dr. Jamiu Azeez, acknowledged the contributions made by SOFIIA in the purchase of important scientific equipment for the Department, to enhance teaching and research activities by broadening the skills and knowledge of both the staff and students. He appreciated the Vice-Chancellor, Professor Olusola Oyewole, for providing an enabling and conducive environment for the implementation of the project.

The leader of SOFIIA consortium and the Principal Investigator, Professor Jonathan Lloyd of the Imperial College, London (ICL), implored participants to be abreast of others as the advantage for attending the programme, during which lectures on “Tropical Soils and Ecosystem Function”, “Soil Profile Description” and “Soil Carbon and Phosphorous Fractionation”, were delivered by experienced resource persons such as Dr. Carlos Quesada from Brazil, Dr. Gustavo Saiz from Spain and Mr. Martin Hodnett from the United Kingdom.

## 5.10 CAPACITY BUILDING WORKSHOP BY CISLT

A 2- day Capacity Building Workshop was organised by the Centre for Innovation and Strategic in Learning and Teaching (CISLT) for Junior Academics, on “Modern Methods of Teaching and Learning in Higher Education” between 25th and 26th January, 2016 .

The Vice-Chancellor, Professor Olusola Oyewole, challenged academic staff on the need to adopt the use of modern technologies to enhance quality teaching and effective learning in the nation's Ivory Towers. Professor Oyewole, who was represented by the Chairperson, Committee of Deans and Directors (CODAD), Professor Bolanle Akeredolu-Ale, called on the management of higher educational institutions in Nigeria to put emphasis on the development of teaching and learning policies in their institutions for better performance.



The Director of CISLT, Dr. Olusegun Folorunso, revealed that the workshop was for academic staff within the cadre of Assistant Lecturer to Lecturer I, as part of University's efforts towards staff development, adding that the workshop was divided into three modules, which included how to engage university teachers in quality teaching for effective learning in higher education institutions, mentoring among academic staff, teaching and learning with technology.

In his presentation on "Mentorship: A Missing Link in the University Educational Culture", the Dean, Student Affairs, Professor Yemi Akegbejo-Samsons, said a mentor cannot give what he/she does not have to a mentee. According to him, mentoring students could greatly improve the quality of higher education and build capacity for the University in the 21st Century-knowledge economy.

He, therefore, recommended that concerted efforts and workable programmes should be put in place in the various Colleges and Departments to enforce mentoring for both student and faculty. Speaking on the significance of quality service delivery, the Chairperson, FUNAAB Chapter of SERVICOM, Mrs. Francisca Aroyeun, said the University would want to pride itself as being service compact-compliant, while stressing the need for proper monitoring and reporting of service failure in any part of the University, most especially, the service needed for teaching and learning.

### **5.11 2-DAY PROFESSORIAL RETREAT**

A 2-day Professorial Retreat was held in the University and coordinated by the Directorate of Grants Management, with the theme “Grant-Winning Professors and Strategic Mentoring”. At the Reterat, the Vice-Chancellor, Professor Olusola Oyewole, described Professors in the University as vital to the attainment of a world-class status for FUNAAB. He disclosed that there was no way a university could be categorised as world-class, without having world-class Professors.



*The Vice-Chancellor, Professor Olusola Oyewole (Arrowed), guest speakers and participants after the Professorial Retreat*

He stressed that the strength of the university depended on the quality of its Professors, adding that, world-class Professors have academic integrity through adhering to strict academic ethics, are widely travelled, well known, are being cited in current developments in their fields and are outstanding in research, teaching and community service. Professor Oyewole tasked the University Professors not to rest on their oars because they have achieved the Professorial status, but think globally and act locally.



*Prof. Ololade Enikuomehin*

*Professor Steve Afolami*

*Prof. Lateef Sanni*



*Prof. Andrew Westby*

*Prof. Kolawole Adebayo*

Guest speakers at the retreat include the Deputy Vice-Chancellor (Development), Professor Ololade Enikuomehin, who spoke on the topic, “Rethinking Postgraduate Supervision in FUNAAB: Key Issues and Strategic Options”, where he described postgraduate studies as “providing creative, adaptive graduates with ability, skill and competencies required for meaningful impact in different vocations, professions or endeavours” and putting in place, the appropriate policy framework, implementation, evaluation and routine re-evaluation of outcomes.

In the second presentation titled, “Grants Management and Postgraduate Mentoring: Experience from My Works”, the Dean of the College of Food Science and Human Ecology (COLFHEC), Professor Lateef Sanni, stressed that selecting a good team member is the bedrock of every successful mentoring. He said that in selecting team members, it should be made up of good people with the right skills, right partnership and right opportunity. Professor Sanni added that in winning grants, those involved in the project are very important to the grant provider because a grant is an investment, not a contract, saying grant providers have strict guidelines which include education, gender, age, nationality, scientific track-record, specific expertise, appropriate percentage of committed effort and the use of consultants to fill in the gap.

The Vice-Chancellor of the Augustine University, Ilara-Epe, Lagos State, Professor Steve Afolami, gave the third presentation on, “Step By Step Guide for Strategic Postgraduate Mentoring in Nigerian Universities”, where he defined supervision, mentoring and apprenticeship. He stated that a mentor is also a supervisor; who establishes cordial relationship that fosters confidence and harmony in such a way that the student is able to work within the framework of partnership in progress, adding that an apprentice is equally a learner except that in most cases, the student receives no pay from his teacher while the apprentice does. He disclosed further that an apprentice is highly subservient to his/her teacher, whereas, subservience is unhealthy for postgraduate training; a style he said was commonly obtainable in Nigeria. Professor Afolami recommended that postgraduate training should embrace mentoring rather than either supervision or apprenticeship.

The last speaker was the Pro-Vice Chancellor, University of Greenwich, United Kingdom, Professor Andrew Westby, with the presentation titled, “Academic Leadership, Grants Winning and Management in World-Class Universities”, where he defined a proposal as the request for financial assistance to implement a project with funding being sought, in whole or in part, from government funding-agencies, charitable foundations, businesses and individuals. Professor Westby said, “Proposal writing is a skill that can be learned and it requires knowledge in many disciplines beyond the core expertise, e.g. budgets and projects management. Without writing skills, your organisation will not obtain funding required to carry out research and developmental projects”.

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## 5.12 FUNAAB HOSTS INTERNATIONAL WORKSHOP ON FOOD SAFETY

The University's College of Food Science and Human Ecology (COLFHEC), in conjunction with the International Life Sciences Institute (ILSI) and the University of Ghana (UG), Legon have held a training workshop tagged, "Food Safety for Nutritionists and other Health Professionals (FSN), 2016".

Speaking at the Opening Ceremony, the Vice-Chancellor, Professor Olusola Oyewole, congratulated the College for the workshop, conveying deep appreciation of the University Management to the facilitators of the programme. Represented by the Deputy Vice-Chancellor, Development, Professor Ololade Enikuomehin, the Vice-Chancellor said that hosting the workshop indicated that the University was on course, as he thanked the organisers for the opportunity of showcasing the University. The Vice-Chancellor stated that issues bordering on food safety and nutrition were important components of the attempt to keep human lives very safe, especially in the nation, where the economy was a determining factor in what people eat.



*Representative of the Vice-Chancellor and the DVC (D), Prof. Ololade Enikuomehin (In white native attire), with facilitators and participants at the international workshop.*

The Dean of COLFHEC, Professor Lateef Sanni, appreciated the Programme Coordinator, Professor Folake Henshaw, who is also the immediate past Dean of COLFHEC, and her team for consistently delivering quality service on human development in the area of food safety and nutrition. Professor Sanni said that investment in the improvement of capacity of actors in the value chain was very important, saying that Nigeria started well in the 1970s with the existence of environmental officers popularly known as 'wole wole'. He noted that such structure was still

there in the state ministries of health, although there was no working capital and funds to support the programme. He noted that the essence of training was to renew people's understanding of food safety traceability and how best to monitor it.

### **5.13 3-DAY CAPACITY BUILDING WORKSHOP ON AGRICULTURAL INFORMATION SYSTEMS DEVELOPMENT**

A 3-Day Capacity Building Workshop on Agricultural Information Systems Development, was organised by the World Bank Africa Centre of Excellence in Agricultural Development and Sustainable Environment (CEADESE).

Delivering a keynote speech at a 3-Day Capacity Building Workshop, the Director of Grants Management, Professor Kolawole Adebayo said that with the widening gap between the industry and the university, there is the need for the acceptance of information as the fifth factor of agricultural production. According to him, "There are ways that traditional economics should have improved itself longtime ago by bringing in information as a fifth factor of production. Today's economics is telling us that without critical information, all the other factors of production cannot be harnessed at their best and optimally useful". Professor Adebayo said that information was the secret weapon among the factors of production and that was why the traditional economics have been silent about it, adding that what distinguishes a successful entrepreneur from a less successful one was the amount of information at his/her disposal and how to deploy that information to achieve the goals of his/her enterprises.





***Resource persons and participants at the 3-Day Capacity Building Workshop***

Professor Adebayo, who is also the Project Director of CAVA II, said that people, who were into agriculture and agro-allied enterprises, could access a large body of data from agricultural production to processing to marketing to the logistics of management of movement of goods and services in agriculture to export and international trading in agriculture to extension services as well as to research. He noted that there were several distinct units of data that needed to be processed to become valuable information and cautioned that when a large body of data are scattered and abused, there would not be a coherent message, as he congratulated participants at the workshop for the opportunity to launch themselves into the emerging trend of modern agricultural enterprises management in an information era.

Delivering a paper titled, “Introduction to Information Systems Development: Application to Agriculture”, the Director, Centre for Innovation and Strategy in Learning and Teaching (CISLT) of FUNAAB, Dr. Olusegun Folorunso, stated that information services should be made available in all regional languages and at the farmers’ door steps. He stressed that there should be a change in the mindset that would motivate the people towards the building of comprehensive database and information systems for the farming community. Dr. Folorunsho further stated that the development and implementation of proper early warning systems, advisory services, development of expert systems on what-to-grow, when and where; would enhance agricultural productivity. He added that bridging the gap, through the judicious use of ICT between knowledge and practice for sustainable use of natural resources and linkages between research, technology and production as well as reliable and comprehensive information, should be made available at anywhere and anytime. In another lecture titled, “Ethical and Societal Issues in Agricultural Information Systems”, Dr. Folorunso had described agricultural information systems as uniquely positioned to

capture, store, process and communicate timely information to decision-makers for better coordination of agricultural systems.

In his lecture titled, “Agricultural Systems, Data Gathering and Agricultural Information Systems: A Conceptual Approach and Nexus with Agricultural Productivity”, Dr. Olalekan Sakariyawo, had described the basic objectives of agricultural system as the provisions of food, feed, fibre and fuel, adding that it could be inferred that agricultural system is multi-functional with externalities. According to him, the use of ICT in agriculture could foster sustainable intensification through reduced cost of agricultural input, increased revenue and income, increased biodiversity in an ecosystem, engendering intelligent response to variable environmental factors and ensuring faster service delivery. Others include increased traceability of the resource input towards a healthier foods delivery and environment, increased networking, collaborative efforts among all the stakeholders, improving technology adoption and increased access to information.

Delivering a lecture titled, “Information Storage and Retrieval, Database Management Systems (DBMS), Using MS Access”, Mr. Ayofemi Emmanuel, had described database as the collection of related files, containing records on people, places or things, noting that prior to digital databases, business used file cabinets with paper files. Mr. Emmanuel stated that to manage information properly, farmers must understand some important principles of database design, adding that database tools and technologies for accessing information from databases help to improve farm yield, income performance and decision-making. He further said that database also ensures good information policy, data administration and data quality assurance through the management of the farm’s data resources.

Speaking on the presentation titled, “Principles of Information Dissemination and Feedback Mechanisms Using ICT Resources”, which was basically a practical session, Mr. Olusegun Adeosun, stated that agricultural informatisation could be described as the degree and process of transforming agriculture sector, through the effective use of ICTs in agricultural production, operation and management. Dr. Matthew Olayiwola, while delivering the paper titled, “R System for Statistical Computing”, stated that ‘R’ is a flexible statistical software package that offers the environment an object-oriented programming and statistical data analysis. In his presentation titled, “Principles of Data Manipulation and Information Analysis Using MS-Excel”, Mr.

Oluwaseun Hamzat, had described spreadsheet as a computer programme that displays numerical data in cells in a simulated accountant's worksheet of rows and columns in which hidden formulas can perform calculations on the visible data.

Earlier, the Director of CEADSESE, Professor Okanlawon Onagbesan, had stated that the days were gone when people sit down in their laboratories, formulate research and just publish papers such as for promotion, even though “we get accused all the time by the industry that we have not been where we are supposed to be”. According to him, “We are not influencing them. No contact with them because there is nothing they could use from the university”. He disclosed that the CEADSESE was created to bridge such gaps, saying that the purpose of the workshop was to discuss things that were not usually learned in the class. Professor Onagbesan stressed that the workshop was to expose participants on how to collect data and process them to make them more useful not only to themselves, but to the industry and government.

#### 5.14 FUNAAB HOSTS PPSN CONFERENCE

The University recently hosted the 40th edition of the Parasitology and Public Health Society of Nigeria (PPSN) Conference and Annual General Meeting (AGM), with the theme “Consolidating the Parasitic Diseases Elimination Strategies in Nigeria and Africa”.



*(L-R, Sitting): Katsina State Comm. for Education, Prof. Halima Idris: DG, NITOR, Prof. Mohammed Mamman: Fellow, PPSN, Prof. Alex Achokonu, representative of the Vice-Chancellor and the DVC (D) of FUNAAB, Prof. Olorade Enikaomhin: PPSN National President, Prof. Chinyere Ubagu and the Chairman, Editorial Board, N.J.P. Prof. Bernard Nwoke and other dignitaries at the PPSN Conference.*

The Keynote Speaker and the Director-General, National Institute for Trypanosomiasis and Onchocerciasis Research (NITR), Kaduna, Professor Mohammad Mamman, stated that more than one billion people were affected with one or more neglected tropical diseases, adding that the ailment remained abandoned at all levels, as he highlighted 17 neglected diseases caused by micro and macro parasites such as Buruli ulcer, Chagas diseases, Dengue Leishmaniasis, Leprosy, Human African Trypanosomiasis, Rabies, Trachoma, Treponematoses, Cysticercosis and Dracunculiasis. According to him, Nigeria had the highest prevalence of these Neglected Tropical Diseases (NTDs), noting that the theme for the conference was apt and timely because of the growing impact of pathogens on human health.

Declaring the conference open, the Vice-Chancellor, Professor Olusola Oyewole, who was represented by the Deputy Vice-Chancellor, Development, Professor Ololade Enikuomihin, appreciated the Society for the privilege given for FUNAAB to host the conference. He challenged the parasitologists to work together to eliminate parasitology-related diseases in Nigeria and Africa because there was the need to balance between literacy, cultural practices and norms as it applied to parasitology, noting that indigenous practices could be fine-tuned to suite modern practice, which would lead to solutions, particularly, the environment.

The President of PPSN, Professor Chinyere Ukaga, had stated that there were great expectations of a better conferencing when compared with the last one held in Lafia, Nasarawa State. She recalled that the establishment of the Society took place in Calabar in 1973 and was formerly known as the Nigerian Society for Parasitology (NSP), with limited membership across the six Nigerian universities, adding that the main agenda of the body was to develop parasitology that responded to African needs and training others for research and service.

Professor Alex Acholonu of the Alcorn State University, Mississippi, United States of America (USA) had described parasitology as the study of parasitism or the study of parasites, saying that it was an essential subject in tropical Nigeria. According to him, parasitism is a way of life in which one specie (parasite) lives on another specie (the host), while gaining its livelihood at the expense of the host. The Professor of Biology stated that there was the need for more research on parasitology, particularly, in the area of common and unknown organisms such as the pentastomes and Acanthocephalans. Meanwhile, Professor Acholonu was redecorated as the founding member of the Society as well as Fellow of PPSN at the occasion.

## 5.15 2-DAY CAPACITY BUILDING WORKSHOP FOR HEADS OF ACADEMIC DEPARTMENTS



*A Cross-Section of Participants at the Capacity Workshop*

A 2-Day Capacity Building Workshop was held for Heads of Academic Departments in the University. The Workshop was aimed at strengthening and empowering the administration of the various academic departments.

Speaking during the Workshop, the Vice-Chancellor Professor Olusola Oyewole, reiterated the determination of the University Management to the building of human capacity and provide the visionary leadership that would enable FUNAAB maintain high standards, achieve internationalisation, excellent delivery of learning, research and virile community engagements. The Vice-Chancellor recalled that FUNAAB organised a similar workshop recently, where academic heads of departments were treated to a retreat and notes were compared compared on how to do things with the best global academic acceptable standards.

Delivering a paper titled, “Academic Ethics: Rules And Regulation”, Professor Chryss Onwuka, a former Deputy Vice-Chancellor (Academic), said that in matters relating to ethics, honesty, integrity in academics and in all aspects of life, there are no half measures, stating that it should be all-embracing. His words: “We may not be and are not saints, but we can strive to be saintly in our journey in life”. He noted that there was no Nigerian or African redefinition of ethics or integrity, saying that it was a global issue which calls for everyone’s strict adherence to the global definition.



**Prof. O. Enikuomehin (Representing  
Vice-Chancellor)**



**Prof. C.F.I. Onwuka  
Resource Person**



**Prof. O.D. Akinyemi  
Resource Person**



**Prof. Morenike Dipeolu  
Resource Person**



**Prof. Folake Henshaw  
Resource Person**

In her lecture titled, “Leadership and Management of Academic Departments”, Professor Morenike Dipeolu stated that the prime role of the Head of Department (HoD), was to provide strong academic leadership to the department, stressing that he/she was required to lead, manage as well as develop the department. Professor Dipeolu, a former Dean, College of Veterinary Medicine (COLVET), further said that the HoD should ensure that he/she achieves the highest possible standards of excellence in all the departmental activities.

Professor Olukayode Akinyemi, the Director of Academic Planning, while delivering his lecture titled, “Programme Evaluation, Procedure and Criteria-Case Study of FUNAAB”, described accreditation as a process of self-study and external quality review used in higher education to scrutinise an institution and its programmes for quality standards and consider the need for quality improvement. On the purpose of accreditation, he said, the process was designed to determine whether or not an institution had met or exceeded the published standards set by an external body such as government, national quality assurance agency, or professional association for accreditation and whether it was achieving its mission and stated purpose. He, therefore, gave the status of accreditation of the programmes in the University, as of October 2015, whereby there were 28 programmes, out of which 22 had the status of full accreditation while five had an interim

accreditation status.

Delivering his lecture titled, “Examination: From Conduct to Result Processing”, Professor Christian Ikeobi, stated that the timeliness and the efficiency with which results processing was being done invariably affect other programmes and activities in, and outside the University such as the National Youth Service Corps mobilisation of graduates, annual leave of academic staff, timely registration of students for the next level, students’ applications for and receipt of scholarships, among others. The immediate past Dean, College of Animal Science and Livestock Production (COLANIM), added that results processing impinged on the overall image of the University when it is timely and effective.

In his lecture titled, “An Efficient and Effective Quality Assurance Structure”, Professor Adekojo Waheed, said that quality and excellence cannot be attained overnight, adding that organised and focused efforts by various stakeholders, who are teachers, students, technical and non-technical staff, as well as administrative staff, were needed to achieve this goal. Professor Waheed, who was the immediate past Deputy Vice-Chancellor (Academic), noted that effective internal quality assurance of FUNAAB’s system would facilitate the process of achieving greater transparency and transferability of professional qualification, thereby, increasing employability of the students, upon completion of their degree programmes.

Delivering his lecture titled, “Management of Part-Time, Distant Learning and Postgraduate Programmes”, the Deputy Vice-Chancellor (Development), Professor Ololade Enikuomihin, described part-time studies as a non-traditional learning system in which students’ schedule are designed to accommodate other primary life engagements like work and family, health, among others. He also described distance learning as a form of part-time learning system but characterised by absence of physical contact between “student - teacher or student - student and teacher - teacher - student - teacher”.

Justifying the establishment of Service Compact with all Nigerians (SERVICOM) in the University, Mrs. Francisca Aroyeun, said that the office was created for service delivery and quality control for good work ethics, adding that it was to create in every staff and student, a high level of commitment to vision, mission, values, core functions and standards of the University. She enjoined HoDs to uphold high standards of service delivery and ensure performance monitoring of staff and programmes in their various departments.

## 5.16 FUNAAB GETS DONATIONS



The Federal Ministry of Agriculture and Rural Development, has donated a Soil Doc Kit to the University, as the Royal Society of the United Kingdom, through the Soils of Forest Inland in Africa (SOFIIA) Project, has also presented a Motorized Auger to the institution. The Soil Doc Kit is used to analyze the soil in order to determine the best type and quantity of fertilizers to be used for productive farming, while the Motorized Auger is useful for those in Soil Science and Engineering to take the profile of the soil.

The Soil Doc Kit was presented to FUNAAB, during a workshop held at the Soil, Plant and Water Laboratory, Ibadan, Oyo State, where the representative of FUNAAB at the occasion, Dr. Florence Olowokere, was trained on the use of a mini-laboratory.



## 5.17 LATE DR. OLUBIYO'S FAMILY DONATES BOOKS TO FUNAAB

Members of the immediate family of the former Deputy Dean, College of Management Sciences (COLMAS) of FUNAAB, late Dr. Solomon Olubiyo, has donated books, periodicals and journals to the 'Nimbe Adedipe Library, as well as the Department of Economics of the University.



*The Vice-Chancellor, Prof. Olusola Oyetole (Right), receiving a letter from Mrs. Lydia Olubiyo, wife of the late Deputy Dean, COLMAS on the donated books, while another family member watches.*

Making the donation, the wife of the deceased, Mrs. Lydia Olubiyo, said the gesture was made possible through the Dr. Prince Solomon Olorunfemi Olubiyo Foundation, in which a total of 187 books, 131 periodicals and journals were donated, in furtherance of the University's academic development and ideals of late Dr. Olubiyo.

Late Dr. Olubiyo, joined the services of the University in 2011, and was until his demise, the pioneer Deputy Dean of COLMAS. He was said to have been instrumental to the creation of a full-fledged Department of Economics in COLMAS.

## 5.18 EU TO PARTNER FUNAAB



The Deputy Head, European Union in Nigeria and the Economic Community of West African States (ECOWAS), Mr. Richard Young, has stated that the European Union is set to collaborate with the University in three important areas, namely: Tuning, Horizon 2020 and the Erasmus plus programmes. Mr. Young, who is also an EU Minister disclosed this during a meeting he had with the Vice-Chancellor, Professor Olusola Oyewole. According to him, the three programmes exist in terms of collaboration, and one of them is the Tuning programme, which has developed into a process, an approach to re-designing, develop, implement, evaluate and enhance quality first, second and third cycle degree programmes.

He said Tuning focuses not on educational systems but on structures with emphasis on the subject area level, that is the content of studies, adding that educational systems were primarily responsibilities of governments while contents of educational programmes are that of higher educational institutions and their academic staff. He added that the name, Tuning, was chosen so as to reflect the idea that Universities do not have uniform degree programmes. He lauded the Vice-Chancellor for being active in running the Tuning programme, which had recorded huge success. Meanwhile, Mr. Young stated that the Horizon 2020 programme was designed to promote academic research collaboration with Europe and other countries. He added that Horizon 2020 would help to achieve this by emphasising excellent science, industrial leadership in tackling societal challenges. He noted that the goal was to ensure that Europe produces world-class science, removes barriers to innovation and makes it easier for the public and private sectors to work together.

He declared that the third programme, which is Erasmus, allows for Higher Education Institutions in Europe and Nigeria to collaborate, noting that it was aimed at boosting skills, employability and supporting the modernisation of education, training and youth systems. According to him, once the collaboration framework was put in place, it would enable them do part of their courses in Europe by making it possible for students to participate in Joint Master's Degree programme while staff would benefit from capacity building programmes.

## 5.19 TWO STAFF BAG MEDIA AWARDS



Two members of staff of the University have been honoured with the Excellent Media Southwest, Nigeria Awards for their outstanding performance in their chosen fields of endeavours. The organisers of the award, Excellent Media Group, is made up of media practitioners that are based in the Southwest geo-political zone of the country in a bid to promoting the culture of excellence in the society.

They are: Dr. Elizabeth Oluwalana, a Senior Extension Fellow and Programme Leader, Gender Issues and Youth Development (GIYD) programme, Agricultural Media Resources and Extension Centre (AMREC) and Mr. Kunle Agboola, a Chief Academic Technologist in the Textile and Clothing Unit, Department of Home Science and Management, College of Food Science and Human Ecology (COLFHEC) of the University. While Dr. Oluwalana was specifically recognised as the Ogun State Outstanding Personality of the Year 2015, based on her immense contributions in empowering students and graduates in vocational and entrepreneurial skills, as well as value-added herbal production, Mr. Agboola was honoured as the Ogun State Outstanding Technical Instructor of the Year 2015, based on his efforts at developing and imparting technical skills in the area of indigenous African textile technology, with special focus on Adire.

## 5.20 FUNAAB RESEARCHER SOARS HIGHER

A postgraduate student, who is currently undergoing a Doctorate degree in Parasitology in the University, Mr. Olabanji Surakat, is rising high courtesy of the Programme for Appropriate Technology in Health (PATH), based in Seattle, United States of America, for his immense contributions to the alleviation of Onchocerciasis, a disease commonly known as River Blindness. PATH has offered Olabanji, an opportunity to work with the team in its Seattle laboratory to learn the Enzyme-linked Immunosorbent Assay (ELISA) Testing Techniques and compare the Ov16 RDT results against the PATH Ov16 ELISA.



## 5.21 REGISTRAR, FOUR OTHER STAFF NOW CIPM FELLOWS

The University Registrar, Mr. Mathew Ayoola, has been conferred with the highest award of the Chartered Institute of Public Management of Nigeria (CIPM), which is the Fellowship. He was recently conferred alongside four senior members of staff of FUNAAB at the Nigerian Institute of Medical Research Guest House, Lagos.

The other staff are the Deputy Director, Senate and Admissions, Mr. Aniediabasi Udofia; the Principal Assistant Registrar, Council



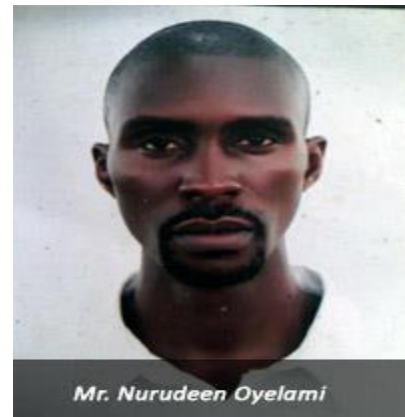
Affairs, Mr. Samuel Adeniran; the Chief Planning Officer, Academic Planning, Mr. Olufemi Bamgbose, and the Assistant Registrar, Vice-Chancellor's Office, Mr. Bamidele Akindele.

The President of the Institute, Archbishop (Professor) Magnus Atilade, decried the common saying that, "government business is nobody's business", noting that public managers should not be part of those saying such because they are architects of national development. Archbishop Atilade, who is also the Chairman of Council of CIPM, noted that government business remained with the public managers.

## 5.22 ALUMNUS WINS NYSC AWARD

Mr. Nurudeen Oyelami, a graduate of the University from the Department of Agricultural Economics and Farm Management, College of Agricultural Management and Rural Development (COLAMRUD), has been conferred with the Akwa-Ibom State honours award as the Most Outstanding Corps Member of the Year.

Oyelami was called up for the Batch 'B' National Youth Service Corps (NYSC) in August, 2014 in Akwa-Ibom State.



Replicating the discipline instilled on him from FUNAAB, he said he was the first person to be registered in the Orientation Camp with the NYSC State Code, AK/14B/0001. Oyelami was later posted to the Community Comprehensive Secondary School, Ikot Eyo, a remote part of the state, where he participated actively in the Community Development Service (CDS) programme, by teaching people on better ways of farming, computer education and creation of awareness on HIV/AIDS across the community. Other activities that brought Oyelami into the limelight of the State NYSC Management include the building of a concrete signpost for the school of his primary assignment, construction of volleyball court for nearby school and donation of textbooks to the school library through mobilisation of funds solicited from village heads and philanthropists in the community.

## 5.23 FUNAAB RISES ON WEBOMETRICS RANKING

The University has been ranked 4th position among institutions in Nigeria and 51st position in Africa in the January 2016 edition of Webometrics Ranking of World Universities, which was conducted by Cybermetrics Lab, a research group belonging to Cosejo Superior de Investigacoues Cientifcas (CSIC) of Spain. FUNAAB came 4th position behind leading Nigerian universities such as the University of Ibadan, Ibadan; Covenant University, Ota; and Obafemi Awolowo University, Ile-Ife; while beating other First and Second Generation universities such as the University of Lagos, Lagos; University of Ilorin, Ilorin; Ahmadu Bello University, Zaria; University of Nigeria, Nsukka; Federal University of Technology, Owerri; and University of Port Harcourt, Port Harcourt.

## 5.24 FUNAAB STAFF BECOMES UNESCO FELLOW



*Dr. Olubukola Adenubi (Middle) with some of the awardees*

Dr. Olubukola Adenubi, a lecturer in the College of Veterinary Medicine (COLVET) of the University, has been conferred with the 2015 L'Oréal-United Nations Education, Scientific and Cultural Organisation (UNESCO) for Women in Science Doctoral Fellowship. She was among the nine recipients that bagged the L'Oréal-UNESCO for Women in Science Doctoral Fellowships. In qualifying for the award, 12 female scientists from across sub-Saharan Africa were selected for their outstanding works and impact in the scientific field.

## 5.25 CHEMISTRY DON DISCOVERS PAINT OIL - PRODUCING PLANT



*Professor Ighodalo Eromosele*



*Ximenia americana plant*

A Professor in the University's Department of Chemistry, College of Physical Sciences (COLPHYS), Professor Ighodalo Eromosele, has produced paint from the seed oil of *Ximenia americana* plant, commonly known as Wild Olive. Professor Eromosele, a Polymer Chemist, said the oil paint which was produced has qualities comparable to those of the imported ones. Thus, Linseed oil, which is currently being imported for paint production can be substituted with *Ximenia* oil.

## 5.26 FUNAAB STUDENTS BAG SCHOLARSHIPS

As part of its Corporate Social Responsibility initiative, the West African Gas Pipeline Company Limited (WAPCo), has awarded scholarships to eleven students of the University. The scholarship scheme is for selected community students, who have secured admission into higher institutions during the 2015/2016 Academic Session. Beneficiaries are: Ajayi Toheeb, Water Resources Management, COLERM; Salako Samuel, Crop Protection, COLPLANT; Lasaki Adeola, Plant Physiology and Crop Production, COLPLANT; Olaotan Blessing, Economics, COLMAS; Kolawole Abimbola, Mathematics ,COLPHYS; Ajayi-Oyelayo Motunrayo, Nutrition and Dietetics, COLFHEC; Soaga Mojeed, Electrical/ Electronics, COLENG; Jimoh Toheed, Environmental Management and Toxicology, COLERM; Jolaosho Abayomi, Crop Protection, COLPLANT; Ayandeji Toheeb, Business Enterprise Management, COLMAS and Isiyemi Samson, Chemistry, COLPHYS.

Each of the beneficiaries would get a sum of One Hundred and Nineteen Thousand, Seven Hundred Naira (N119, 700) that would be used for the payment of school fees, boarding fees and other related expenses.

## 5.27 FUNAAB STAFF WINS AAU GRANT

A staff in the Department of Animal Production and Health, College of Animal Science and Livestock Production (COLANIM), Mr. Joshua Odutayo, has won the Association of African Universities' 2016 edition of Small Grants for Theses and Dissertations Programme to the tune of \$3,500.

Mr. Odutayo, who had an unprecedented 4.90 Grade Point Average in the University, to become the best graduating student in the 2012/2013 Academic Session, won the grant for his Ph.D.

programme with a proposal titled, "Influence of Supplemental Vitamins and Periods of Administration on Laying Performance, Haematological Parameter and Antibody Titre of Egg Type Chickens Vaccinated against Newcastle Disease".



*Mr. Joshua Odutayo*

## 5.28 FUNAAB STUDENTS DEVELOP MOBILE APP



*Uzoma Ibe*



*Ademola Abisayo*



*Abraham Ojeomokhai*

A group of students in the University have developed a mobile application (App) called ‘FUNAAB Air’ that allows students get latest updates, organise their academic activities and stay connected with each other in FUNAAB. The students are: Uzoma Ibe, 500-level, Department of Water Resources Management and Agro-meteorology, College of Environmental Resources Management (COLERM), who is the Team Leader, Air View Devs and Google Ambassador; Mr. Abraham Ojeomokhai, 500-level, Department of Food Science and Technology (FST), College of Food Science and Human Ecology (COLFHEC), who contributed to the development of the Server Side Programming of the Application and Data Analytics, assisted by Mr. Abisayo Ademola, 100-level, Department of Agricultural and Bioresources Engineering, College of Engineering (COLENG).

The students, under the name, Air View Developers (AirViewDevs) developed the new App, which is capable of solving issues of lateness to classes through its automatic time-table feature and is also capable of assisting fresh students or returning students in the University to know how to navigate better around the campus with the inclusion of the Google Map Feature on the application. According to the Team Leader; Uzoma, the product is capable of solving programming issues that they are unable to get, since not all students have the luxury of time in checking for such updates on the University’s website. He added that ‘FUNAAB Air’ had made the University’s website very mobile and easily accessible. Uzoma, said that the team of developers had the aim of using the software development skills to solve problems, adding that they had a goal of contributing their own quota to academic activities of FUNAAB.



## CHAPTER SIX

### 6.0 PHYSICAL PROJECTS

#### 6.1 PROJECTS EXECUTED IN 2015/2016

S/No	PROJECT	SOURCE OF FUNDING	CONTRACT SUM	YEAR OF AWARD	REMARKS
1	Construction of Academic Building Complex (Block A)	Federal Government Revitalization Projects (NEEDS Assessment)	135.01M	2015	ONGOING
2	Construction of Academic Building Complex (Block B)	Federal Government Revitalization Projects (NEEDS Assessment)	140.42M	2015	ONGOING
3	Construction of Male Hostel ( Block A)	Federal Government Revitalization Projects (NEEDS Assessment)	155.7M	2015	ONGOING
4	Construction of Male Hostel ( Block B)	Federal Government Revitalization Projects (NEEDS Assessment)	193.75M	2015	ONGOING
5	Construction of Female Hostel ( Block A)	Federal Government Revitalization Projects (NEEDS Assessment)	156.46M	2015	ONGOING
6	Construction of Female Hostel ( Block B)	Federal Government Revitalization Projects (NEEDS Assessment)	201.24M	2015	ONGOING

7	Construction of College of Plant and Crop Production	Federal Government Revitalization Projects (NEEDS Assessment)	222.69M	2015	ONGOING
8	Construction of College of Food Science and Human Ecology (COLFHEC) Phase II	Federal Government Revitalization Projects (NEEDS Assessment)	210.634M	2015	ONGOING
9	Construction of 250 Seater Computer Laboratory	Federal Government Revitalization Projects (NEEDS Assessment)	180.39M	2015	ONGOING
10	Construction of Post Graduate Hostel	Federal Government Revitalization Projects (NEEDS Assessment)	196.17M	2015	ONGOING
11	Construction of Car Park, Walk ways for Entrepreneurship Centre	Federal Government Revitalization Projects (NEEDS Assessment)	6.76M	2015	COMPLETED
12	Construction of Car Park, Walkways and Drainage Network for Science Laboratory and 1000 Capacity Lecture Theatre	Federal Government Revitalization Projects (NEEDS Assessment)	22.582M	2015	COMPLETED

### 6.3 Major Achievements for 2015/2016

- 13 Construction of Car Park, Walkways and Drainage Network for Science Laboratory and 1000 Capacity Lecture Theatre.
- 14 Construction of office for Science Laboratory Building
- 15 Construction of Car Park Walk ways for Entrepreneurship Centre
- 16 Supply and Installation of Furniture and Fittings for 250 Capacity Chemistry Laboratory
- 17 Supply and Installation of Furniture and Fittings for 250 Capacity Biology Laboratory

- 18 Supply and Installation of Furniture and Fittings for 250 Capacity Physics Laboratory
- 19 Supply and Installation of Furniture and Fittings for Entrepreneurship Building
- 20 Supply and Installation of Furniture and Fittings to the 1000 Capacity Lecture Theatre Building.
- 21 Participation in University Committee assignments that are compatible to Physical Development and Space Management such as:
  - (i) Budget Committee
  - (j) Ceremonial Committee
  - (k) University Central Project Monitoring Committee
  - (l) Special Committee on Dams and Water Projects
  - (m) Committee on Rehabilitation of the 3Hectares Fish Reservoir
  - (n) Procurement Planning Committee and Tenders Board
  - (o) University Sports Committee
  - (p) Council Committees

## 6.4 Projects in Pictures



**CONSTRUCTION OF ACADEMIC BUILDING  
COMPLEX (BLOCK A) - VIEWS OF RIGHTSIDE AND REAR**



**CONSTRUCTION OF MALE HOSTEL  
(BLOCK A) - FRONT VIEW**



**CONSTRUCTION OF FEMALE HOSTEL  
(BLOCK A) -FRONTAGE**



**CONSTRUCTION OF COLLEGE OF PLANT SCIENCE AND CROP PRODUCTION BUILDING (COPLANT) PHASE II- FRONTAGE**



**CONSTRUCTION OF COLLEGE OF FOOD SCIENCE AND HUMAN ECOLOGY (COLFHEC) PHASE II - FRONTAGE**



**CONSTRUCTION OF 250 SEATER COMPUTER  
LABORATORY - FRONTAGE**



**CONSTRUCTION OF POST GRADUATE STUDENTS HOSTEL  
(BLOCK A) - FRONTAGE**



**CONSTRUCTION OF CAR PARK, WALKWAYS AND DRAINAGE NETWORK FOR SCIENCE LABORATORY LECTURE THEATER**

## CHAPTER SEVEN

7.0

### FINANCE

7.1

### INCOME AND EXPENDITURE REPORT

#### INCOME AND EXPENDITURE REPORT

#### A RECURRENT

S/N	SOURCES OF INCOME (A)	2014	2015	2016
		(JAN'14 - DEC'14) AUDITED	(JAN'15 - DEC'15) UNAUDITED	(JAN'16 - DEC'16) UNAUDITED
		₦	₦	₦
1	Personnel Grant	4,090,664,624.97	4,562,663,060.54	4,866,615,439.00
2	Overhead Grant	50,361,146.41	22,860,888.05	35,924,980.50
3	Direct Teaching and Laboratory Cost Grant	24,805,448.20	49,287,868.00	52,909,081.20
4	ETF/TETFUND Intervention (Recurrent)	42,506,155.00	131,406,962.00	-
5	3rd Party Funds (Student's Service Charges)	855,217,097.19	1,018,404,582.00	946,252,497.21
6	Extra Government Earnings	862,481,197.41	491,878,041.65	162,454,297.54
7	Donations and Endowments	25,368,578.97	6,057,386.78	26,357,945.40
<b>TOTAL INCOME</b>		<b><u>5,951,404,248.15</u></b>	<b><u>6,282,558,789.02</u></b>	<b><u>6,090,514,240.85</u></b>



**EXPENDITURE ITEMS (B)**

1	Personnel Cost	4,090,664,624.97	4,562,663,060.54	4,746,057,531.37
2	Departmental Expenditures	273,289,804.47	277,195,254.93	119,632,462.49
3	Library Development Expenditure	32,278,651.68	3,946,378.83	2,541,315.90
4	Academic Expenditures	277,581,741.41	256,166,797.02	196,961,656.07
5	Direct Teaching and Laboratory Cost Exp	90,431,448.82	49,287,868.00	14,696,967.00
6	General Administrative Expenditures	348,068,877.46	272,084,910.38	98,965,089.62
7	Depreciation	507,947,734.67	408,053,662.31	327,804,968.81
8	Finance Charges	5,756,066.53	5,689,321.20	5,623,349.83
<b>TOTAL EXPENDITURE</b>		<b>5,626,018,950.01</b>	<b>5,835,087,253.20</b>	<b>5,512,283,341.09</b>
<b>* NET INCOME (A - B)</b>		<b>325,385,298.14</b>	<b>447,471,535.82</b>	<b>578,230,899.76</b>

**B CAPITAL  
SOURCES OF INCOME (A)**

1	ETF/TETFUND Intervention (Capital)	156,000,000.00	57,765,546.49	-
2	Capital Grant	72,269,915.59	26,846,574.00	43,693,149.00
3	* IGR Capitalised	505,606,312.65	158,047,172.40	204,847,400.48
<b>TOTAL INCOME</b>		<b>733,876,228.24</b>	<b>242,659,292.89</b>	<b>248,540,549.48</b>

**EXPENDITURE ITEMS (B)**

1	Capital Projects	733,876,228.24	242,659,292.89	248,540,549.48
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**TOTAL EXPENDITURE**

<b>733,876,228.24</b>	<b>242,659,292.89</b>	<b>248,540,549.48</b>
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**NET INCOME (A - B)**

-	-	-
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\* Capital Expenditures were made from current Recurrent funds and reserves

493,637,506.61	158,047,172.40	204,847,400.48
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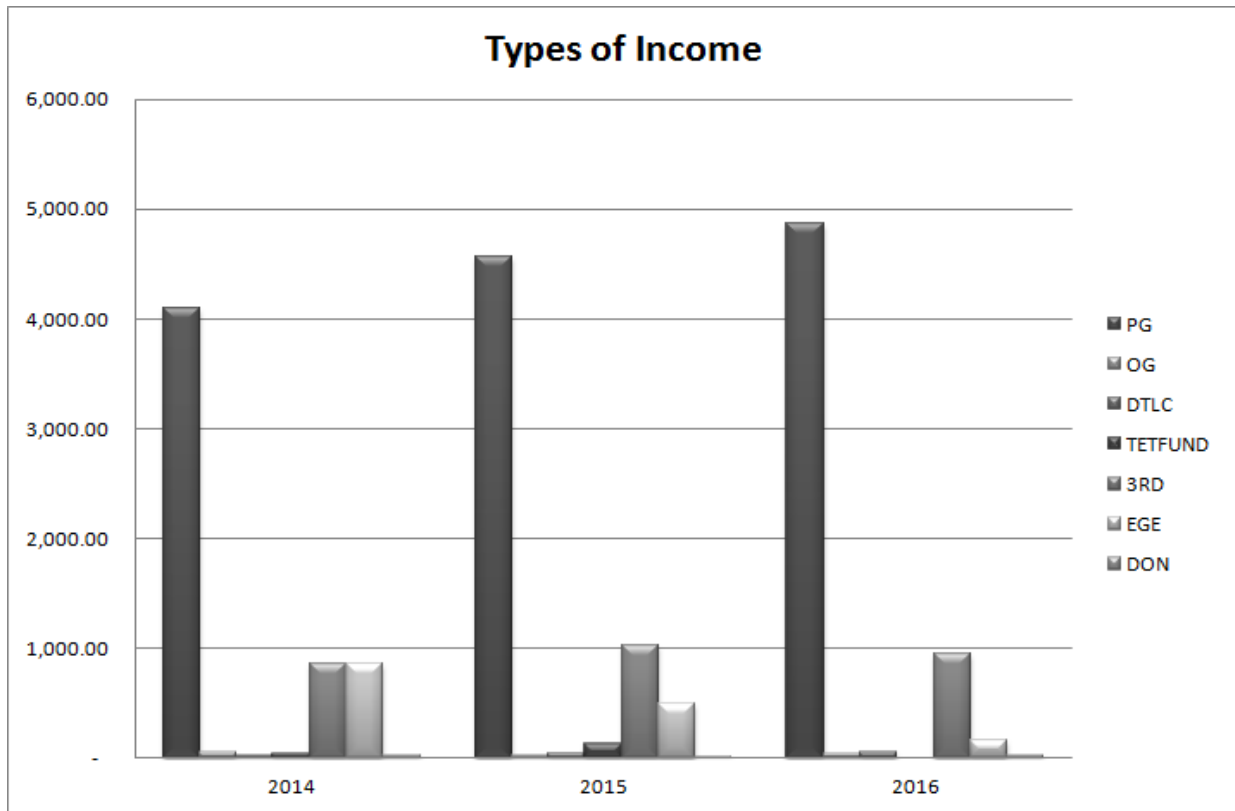
**7.2 COMPARISON OF EXPENDITURE FROM 2014 TO 2016**

		(Jan '14 - Dec' 14) AUDITED 2014 ₦ million	(Jan'15 - Dec'15) UNAUDITED 2015 ₦ million	(Jan'16 - Dec'16) UNAUDITED 2016 ₦ million
Personnel Cost	PC	4,090.66	4,562.66	4,746.06
Departmental Expenditures	DE	273.29	277.20	119.63
Library Development Expenditure	LDE	32.28	3.95	2.54
Academic Expenditures	AE	277.58	256.17	196.96
Direct Teaching and Laboratory Cost Exp	DTL	90.43	49.29	14.70
General Administrative Expenditures	GAE	348.07	272.08	98.97
Depreciation	DEP	507.95	408.05	327.80
Finance Charges	CHR	5.76	5.69	5.62
		5,626.02	5,835.09	5,512.28

### 7.3 COMPARISON OF INCOMES FROM 2014 TO 2016

		(Jan'14 - Dec'14) AUDITED	(Jan'15 - Dec'15) UNAUDITED	(Jan'16 - Dec'16) UNAUDITED
		2014 ₦ million	2015 ₦ million	2016 ₦ million
Personnel Grant	PG	4,090.66	4,562.66	4,866.62
Overhead Grant	OG	50.36	22.86	35.92
Direct Teaching and Laboratory Cost Grant	DTLC	24.81	49.29	52.91
ETF/TETFUND Intervention (Recurrent)	TETFUND	42.51	131.41	-
3rd Party Funds (Student Service Charges)	3RD	855.22	1,018.40	946.25
Extra Government Earnings	EGE	862.48	491.88	162.45
Donations and Endowments	DON	25.37	6.06	26.36
		<b>5,951.40</b>	<b>6,282.56</b>	<b>6,090.51</b>

## 7.4 Types of Income



## 7.5 Types of Expenditure

