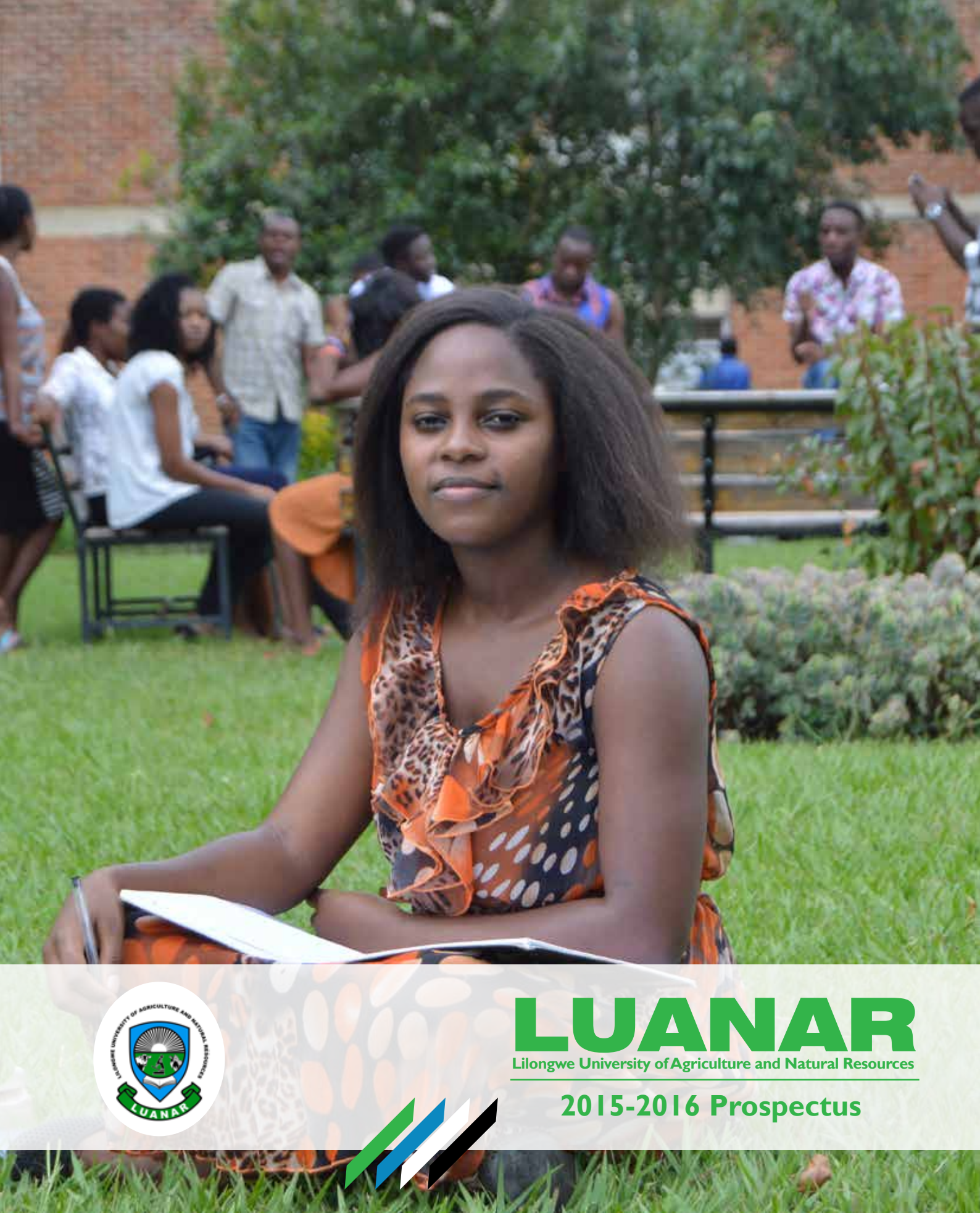

LUANAR

Lilongwe University of Agriculture and Natural Resources

2015-2016 Prospectus

Vice Chancellor's Message

Welcome to the Lilongwe University of Agriculture and Natural Resources (LUANAR). I am pleased that you are considering studying at LUANAR, an institution renowned for research, teaching and learning excellence, and a commitment to engaging with society's challenges.

LUANAR offers a full range of undergraduate and postgraduate programmes under four faculties; namely: Agriculture, Food and Human Sciences, Development Studies and Natural Resources. Our programmes have been carefully designed to ensure that each student is well prepared for the working environment of the 21st century.

As well as developing your academic skills, the wealth of additional opportunities available to you, will help you to build the life and leadership skills that are the hallmark of a high-quality graduate and you will build friendships that will last a lifetime. There is no better time to make LUANAR your first choice. Our academic standards are high because we offer high-quality teaching, innovative academic programmes and effective learning opportunities in a wide range of disciplines. We support our students to do their best; we believe that what lies behind our success is indicative of the educational experience you will receive here.

At LUANAR you are taught by outstanding university teachers, many of whom are also researchers because we believe that the reputation of a great university depends not only upon the quality of education, but on the quality of research. We also understand that everyone is an individual with their own learning style and LUANAR has invested in enhanced personal tutoring, the latest learning facilities and new technologies to ensure you can fulfil your potential.

Officially launched in March 2015 as a University in its own right by His Excellency The President of Malawi Professor Arthur Peter Mutharika, what makes LUANAR stand out today is our commitment to contribute towards the development of Malawi and beyond through the impact of our graduates. The world is changing so fast that, in the future, students will end up in careers that do not yet exist. We therefore provide a foundation for success by developing versatile and adaptable individuals well rounded and equipped for a variety of challenges.

Being a student at LUANAR is a unique experience and a privilege. I hope this prospectus gives you all the information you need to make LUANAR your choice university. It has been designed to help you explore different degree requirements, financial aid options, accommodation, and so on. We encourage you to choose LUANAR and I look forward to welcoming you at one of our campuses.

Professor George Y. Kanyama-Phiri
VICE CHANCELLOR

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about LUANAR

NATURE BUILDING

Preamble

To enable you to better develop your own ideas and opinions, we will put you at the center of the learning process. From the outset you will be encouraged to become an independent and self-motivated learner. Most of the lecturers at LUANAR are experts in their fields and their excitement and passion will translate into your degree programme.

Dependent on your discipline, you will have the opportunity to learn in different settings, as you progress through your degree programme. This approach will enable you to control your own learning and encourage you to develop the qualities that employers are looking for in today's university graduates: creativity, independence, team working, goal setting and problem solving. These skills will give you the tools to succeed in your future career.

This prospectus is a guide for school-leavers and others who are interested in studying for undergraduate and postgraduate diploma and degree programmes at the Lilongwe University of Agriculture and Natural Resources. The prospectus introduces you to life at LUANAR describing the campus and detailing the services and facilities we provide for students. Details of all programmes offered are provided.

We are also committed to preparing you for the real world. As well as the transferable skills that each of our degrees foster, certain courses are recognized by professional bodies to give you a head start in industry

Four Reasons Why You should Choose LUANAR

1

You will have the opportunity to get an internationally recognized qualification.

2

You will be exposed to some of the best researchers and lecturers in the world. The quality of your education is directly related to the quality of the faculty staff teaching you.

3

You will acquire an education that extends beyond the classroom curriculum. At LUANAR you will have the opportunity to hone your leadership skills through engagement in societies, clubs, residence committees, and the Students Union.

4

You will have an opportunity to study with students from various countries such as Ghana, Kenya, Ethiopia, Sudan, Zambia, Mozambique and Tanzania just to mention a few.

Our Vision

To be a World Class University

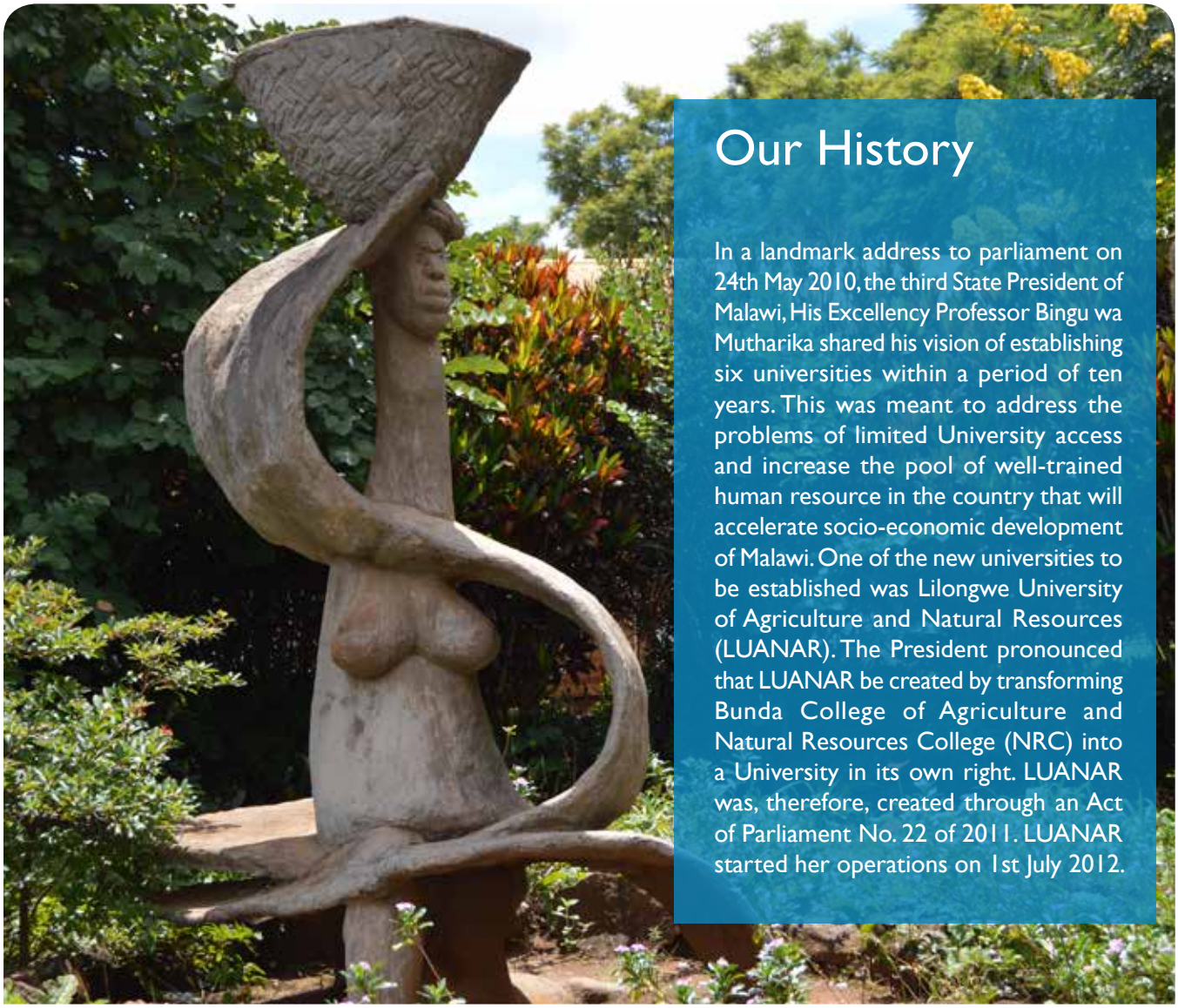
Our Mission

To advance knowledge and produce relevant graduates with entrepreneurship skills for agricultural growth, food security, wealth creation and sustainable natural resources management, through teaching, training, research, outreach consultancy and sound management.

Our Core Values

Our Aims

- To provide quality education and training in agricultural and natural resources sciences, engineering and irrigation technologies, agro-processing, entrepreneurship, trade, climate change adaptation, sustainable utilization of natural resources and environmental preservation for socio-economic development.
- To encourage the advancement, dissemination and commercialization of research.
- To promote industrial growth through research and dissemination of knowledge and skills.
- To establish and support science and technology innovation Centre of excellence for industrial production and manufacturing of value added agricultural and natural resource products.
- To develop partnerships with relevant industries for the generation, transfer, adoption and application of technologies.
- To develop into an institution of excellence in teaching, learning, training Information Communication Technology (ICT), e-learning and research in science, technology and biotechnology.
- To promote practical university education, research and training so as to respond to the needs of Malawi, Africa and the World.
- To demonstrate and promote entrepreneurship among its students.
- To provide specialist training in such subjects as may be found desirable by the University Council and the nation.
- To provide opportunities and facilities for accessing information in support of the programs of the University.



Our History

In a landmark address to parliament on 24th May 2010, the third State President of Malawi, His Excellency Professor Bingu wa Mutharika shared his vision of establishing six universities within a period of ten years. This was meant to address the problems of limited University access and increase the pool of well-trained human resource in the country that will accelerate socio-economic development of Malawi. One of the new universities to be established was Lilongwe University of Agriculture and Natural Resources (LUANAR). The President pronounced that LUANAR be created by transforming Bunda College of Agriculture and Natural Resources College (NRC) into a University in its own right. LUANAR was, therefore, created through an Act of Parliament No. 22 of 2011. LUANAR started her operations on 1st July 2012.

LUANAR Executive Management

Prof. G.Y. Kanyama-Phiri
Vice Chancellor

Prof. E.W.K. Kaunda
Deputy Vice Chancellor

Dr. P.F.D. Kaonda
University Registrar

Mr. C.S. Malemba
Director of Finance

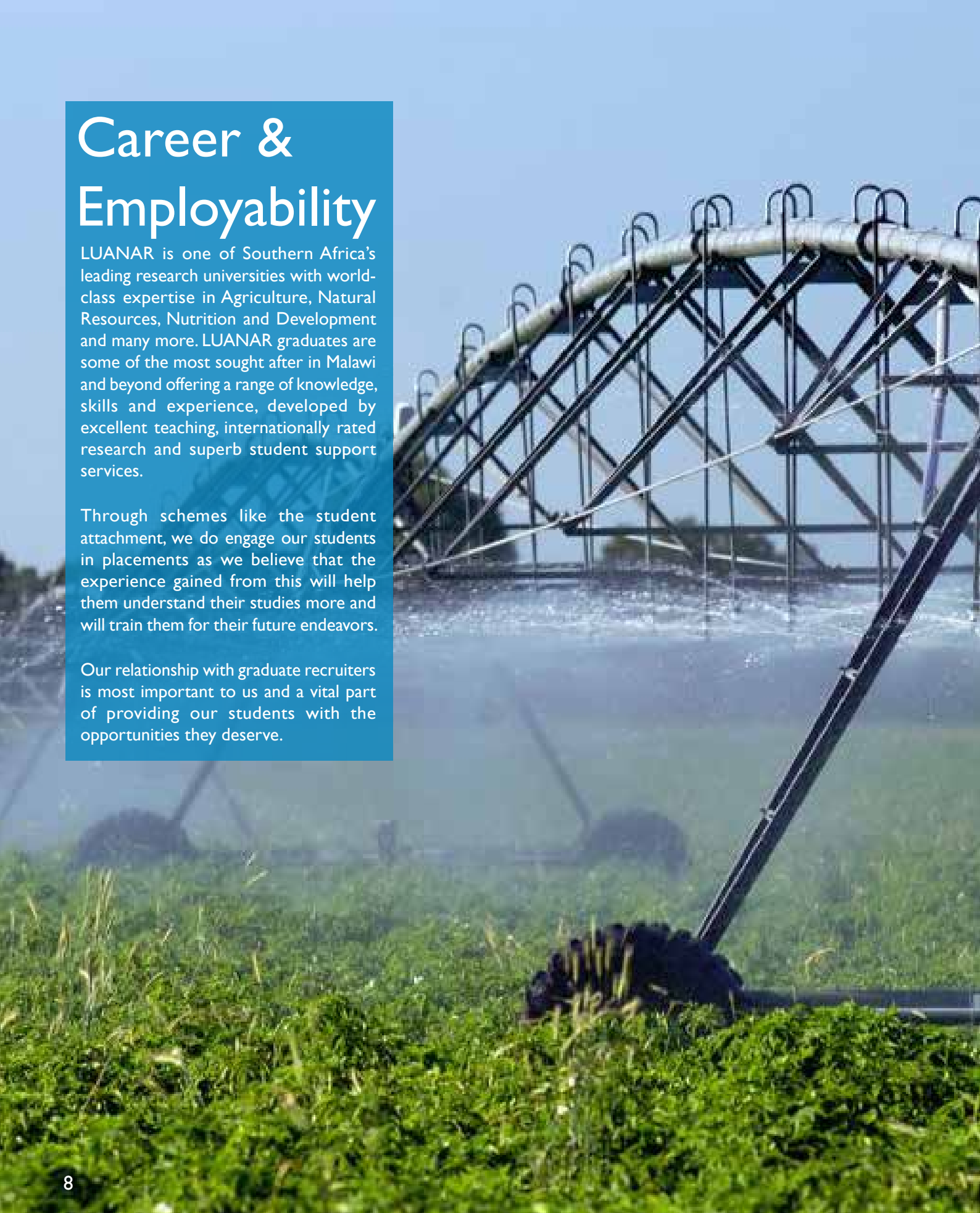
Mr. G.F. Salanje
University Librarian

Career & Employability

LUANAR is one of Southern Africa's leading research universities with world-class expertise in Agriculture, Natural Resources, Nutrition and Development and many more. LUANAR graduates are some of the most sought after in Malawi and beyond offering a range of knowledge, skills and experience, developed by excellent teaching, internationally rated research and superb student support services.

Through schemes like the student attachment, we do engage our students in placements as we believe that the experience gained from this will help them understand their studies more and will train them for their future endeavors.

Our relationship with graduate recruiters is most important to us and a vital part of providing our students with the opportunities they deserve.



Our Alumni

William Dothi

Graduated with a Bachelor of Science in Agriculture. Currently working for the Common Market for Eastern and Southern Africa (COMESA) as Monitoring and Evaluation Expert for the Comprehensive Africa Agriculture Development Program (CAADP) based in Zambia.

Dalitso Kingsley Kubalasa

Currently working as an Executive Director for Malawi Economic Justice Network (MEJN). Prior to being Executive Director, he has worked, as an Economist intern with the Planning Division of Malawi's Ministry of Agriculture and Irrigation and Water Development and as a Branch Manager in an international Micro-Finance Institution, PRIDE Malawi Limited affiliated to the PRIDE Africa group. Dalitso is a passionate activist for pro-poor, participatory and good economic governance, in Malawi, the Southern Africa region as well as at the global level.

Lynda Ndovie Jere

I am an Agricultural Economics graduate of LUANAR then Bunda College under University of Malawi. I started work at the Ministry of Agriculture, seven months after graduating and I have been employed by various government and non-governmental agencies. I am currently working for United States African Development Foundation as a Country Program Coordinator.

Gift Gwaza

I'm, a proud product of the university who graduated in 2003. I have worked as a Monitoring and Evaluation Officer in the Malawi public service. I have also worked with the Malawi National AIDS Commission as a Procurement Specialist and Common Market for Eastern and Southern Africa (COMESA as a Procurement Expert for a European Union funded Regional Integration Support Programme (RISP). Now working as a Programme Officer for Procurement and Supply Chain Management at the Southern Africa Development Community (SADC) secretariat based in Botswana.

LUANAR at a Glance

Malawi has a number of attractions. One of the popular attractions is Lake Malawi, with beautiful beaches; Lilongwe itself has many recreational facilities.

Institution type:	Public
Campus setting:	Lilongwe
Highest degree offered:	Doctorate
Student Population	5,500
Calendar:	Semester

Malawi being in the tropics is usually warm throughout the year. The temperatures in Lilongwe range between 10 to 37°C. The staple food for most Malawian is nsima made from maize flour. However, a wide variety of foods are available in the supermarkets. The prices of goods locally produced are relatively low compared to imported goods.

This means that students must be prepared to accommodate the varying costs of goods at the markets.

LUANAR has several campuses which include Bunda campus, NRC campus and a number of Satellite campuses. Bunda Campus is located about 35 km south of Lilongwe City.

NRC campus is located about 18 km west of Lilongwe City and about 3.5 km off Lilongwe-Mchinji Road. The Satellite campuses are located right in the city centre.

Some of the Ways You Can Expect to Learn at LUANAR

Lectures are where you will listen to experts sharing their knowledge and discoveries in challenging and thought-provoking ways. Academics will introduce you to key facts and ideas in a way that will help you to build a sound and up-to-date knowledge base in your subject, and gain an appreciation of how and why we have reached our current stage of understanding in the field. You can expect to do more than just listen during a 50-minute lecture. You will be asked to consider different viewpoints, make on-the-spot judgments and decisions, and solve problems.

Small group learning occurs regularly and is led by academic members of staff. These group sessions will be particularly intensive during your first year to help you make the transition to university. They will include academic tutorials where you will have a chance to present and share your ideas, debate interpretations and opinions with fellow students, discuss assignments and work on particular problems and topics with the guidance of a staff member.

Self-study is an important element of your education. At the university, you supplement your understanding through research into different perspectives on the topic; deepening your knowledge of an area at your own pace. Lectures map out the terrain of the topic and stimulate your curiosity. Then you find out more through your own independent study and teamwork with fellow students, both before and after the lecture itself.

Peer-group learning is where you may be asked by your tutor to direct a lesson or prepare a presentation on a specified subject with your fellow classmates. By interacting with the lesson material, you will become experts in the area and remember the content more effectively.

Laboratory-based work is your chance to recreate some of the groundbreaking experiments that pushed forward the boundaries of knowledge within your field, get practical experience and apply knowledge you have learnt in your lectures in a laboratory setting. Through these sessions, you will learn to expertly analyze real-life problems, which will equip you with the practical and analytical skills valued by employers.

Your own research project gives you the opportunity to produce an extended, in-depth piece of work, a final-year dissertation or laboratory project designed by yourself according to your own research interests. This can be one of the most exciting parts of your studies. It will be overseen by a staff member who is an expert in this area, and you will often have the chance to carry out the work in our research facilities. Library and laboratory staff will also help you with this project.

campus life

Student Governance and Life at LUANAR

Director of Students Affairs

The office of the Director of Students Affairs is responsible for the following tasks and works hand in hand with the Assistant Registrar (Student welfare), Wardens and the House Keeper.

- Overseeing student accommodation and catering services.
- Coordinating students extra curricula activities.
- Coordinate students health and counselling.
- Educating students on registration.
- Attending to the general student welfare services.
- Attending to students disciplinary matters.
- Ensuring cordial relations between and among students in the Hall of Residence.
- Directing students on whom to approach on specific issues including academic matter.
- Directing housekeeping operations in assigned University buildings ensuring effective and efficient housekeeping services which maintain appropriate quality standards.
- Maintaining university hostels and supplies. Ensuring that there is adequate manning, supplies and equipment for subsequent performance of duties to maintain appropriate quality standards.
- Recommending and implementing solutions for operational problems in work schedules, non-routine service, personnel utilization and non-scheduled jobs.
- Recommending and implementing policies and procedures for University housekeeping operations; plan and conduct meetings with subordinates to ensure compliance with established practices, to implement new policies and to keep employees abreast of current standards and procedures.
- Developing and implementing an on-going building inspection program; ensure housekeeping standards are maintained; take corrective action as appropriate.
- Evaluating and making recommendations concerning cleaning products and equipment.

Student Orientation

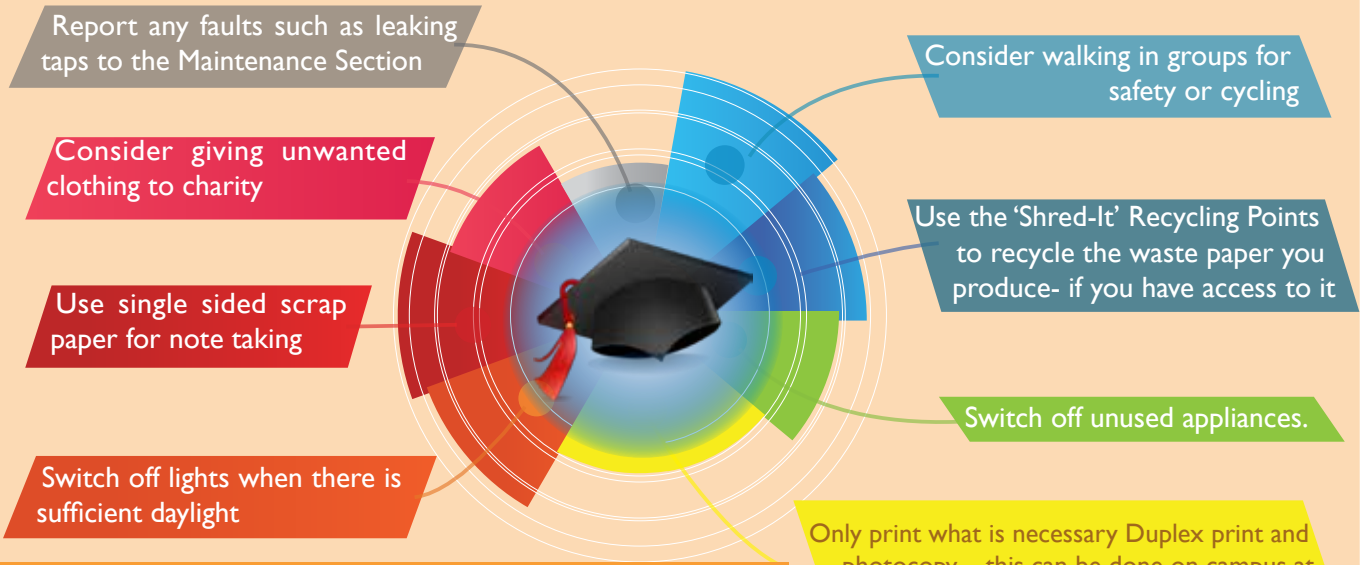
Once students come to LUANAR, the first step to their journey of studies is participation in the Orientation Program. What students do during the very beginning of their first semester of university life can set the foundation for the period of stay at the university. For this reason, LUANAR dedicates two weeks of orientation into the various aspects that would form part of students' lifestyle. The Orientation program is designed to make that transition easier. We want each student to settle down and adjust to the new environment with ease. During this time you will be given a student handbook/code of conduct which you can also access through our website. The hand book will guide you on rules and regulations that you will be required to follow as a student at LUANAR. The office of the Director of Students Affairs is committed to assisting you begin your journey at LUANAR successfully.

Students Union

As is mostly the case in universities worldwide, LUANAR students have their own governing body. This is led by a President, seconded by the Vice President. The members include: Secretary, Treasurer Director of Academics, Publications Director, Entertainment Director, Male Social Welfare Directors, Female Social Welfare Directors, Sports Director, Speaker and Vice-Speaker.

In-order to form a more perfect union, establish justice, ensure domestic tranquility, provide for the common defense, promote the general welfare and secure the blessings of liberty to its members, there was need to establish a constitution for the student union.

Membership is open to all students, however, interested members of staff and alumni may become associate members of the Union after the approval of their application by the Executive Council of the governing body following payment of an annual subscription laid down by the Union. Members shall be required to pay an annual subscription fee, the amount of which shall be determined by the Executive Council upon approval of the union from time to time.



Top Tips to Becoming a Sustainable Student

Student Accommodation

All successful candidates should note that, they are required to find and pay for their own accommodation and meals. However, government sponsored candidates shall be paid a monthly allowance each semester of an academic year on pro rata basis to carter for their accommodation and meals.

Candidates who would like to stay on campus should apply for accommodation and, if accepted, they will be required to pay the University for the same. Candidates are advised that University accommodation is limited and shall be allocated based on the university criteria which can be sought from the office of Director of Students Affairs.

Accommodation FAQs

» Applicants who have firmly accepted either a conditional or an unconditional offer of admission will receive information on how to apply for halls of residence.

When do I get my keys?

» Most students move in on the Saturday before the start of the academic year.

What are my options if my accommodation requirements are less than a full academic year?

» All successful candidates should note that, they are required to find and pay for their own accommodation and meals

How do I pay my rent?

» Rent is normally paid at the start of each term. Alternatively, arrangements may be made by individual agreement with the private Landlords to pay on a monthly basis.

Which office is the point of contact on accommodation?

» If your query is about the room itself, services or utilities offered, or the possibility of the room move, contact the Director of Students Affairs office.

Is there a deadline for accommodation applications?

» Yes, usually in August, although it is recommended that you book as early as possible. Accommodation applications received after the deadline cannot be guaranteed.

Clubs and Societies

At LUANAR there is a full range of clubs, societies and organisations. Clubs have been offering sporting opportunities for student cohort for many years. Membership is open to students, staff and alumni. Sporting clubs compete in local, regional, and international competitions; recreational clubs conduct adventure activities in unique and exciting environments; Clubs cater for the novice and the experienced, and foster new friendships that can last a lifetime. They also organize social activities that you will talk about for years to come. The association's main objectives are to develop a sporting culture amongst students, to enhance sporting competition among student members, to promote high standards of sporting achievements among members and to develop skills and values such as team work, co-operation, fair play, sharing, self-esteem, respect for rules, leadership, discipline, self-respect and confidence.

List of Societies, Clubs and Organisations at LUANAR			
1	Fountain of Victory Ministry	15	University Students Association of Mangochi
2	Assemblies of God	16	Bunda CCAP Students Organization
3	First Love Fellowship	17	Bunda Society of Anglican Students
4	Bunda Students Charity Club	18	Bunda SCOM
5	Aquaculture and Fisheries Organization	19	Students for Rural Youth in Development
6	Captured in Glory Ministry	20	Bunda Environmental Club
7	United Christian Congregation	21	Bunda Agribusiness Society
8	Believers Gathering	22	Bunda Agriculture Education Association
9	Bunda Catholic Students Organization	23	Pentecostal Holiness Association Students Gathering
10	Christ Embassy (Bunda Believers Loveworld Ministry)	24	Crop and Soil Science Club
11	Winners Campus Fellowship	25	History Makers
12	Bunda Agriculture Students Club	26	Bunda Muslim Student Association
13	Redeemed for a Purpose Ministry	27	Forestry Club
14	Church of Christ	28	Youth for Environment and Sustainable Development

International Students

We welcome undergraduate and postgraduate first year students or transfer applications from international students. Typically, we have a percentage of our students from secondary schools or universities outside Malawi.

As a University that follows a need-blind policy in admission for both international & domestic students, LUANAR is in an exceptional position to admit the most accomplished and promising students from around the world.

Our Admission Committee is familiar with various education systems around the world. In reviewing your application, we consider grades, standardized test scores, comprehensive exam predictions or results, essays, recommendations, independent work, and the quality of your current academic program. No one aspect will determine our decision; instead, we look at the sum total of your experiences.

Once you have been selected, and have paid semester fee, you will need to apply for a study visa from any Malawi Embassy.

As a study visa takes several weeks to obtain, we recommend that you pay the required fee at least six weeks prior to your departure. Those coming from SADC countries need not apply for a visa to Malawi.

25%

of the postgraduate student community at LUANAR are international students

My name is **Salima Chantiro**, I am from Mozambique. I am doing Plant Breeding at Lilongwe University of Agriculture and Natural Resources (LUANAR). This University is an amazing place where you can find better Education. I am able now to speak English and interact with students from different countries.

I am **Abdala Jamal Abdala**, Mozambican and pursuing my masters in plant breeding at LUANAR (Bunda College).

As a foreign student, I am enjoying doing my studies in this University. This is because of the excellent quality knowledge transfer from the lectures to student and the way that student are motivated for science by promoting the practical activities in the different science field. For example, in the department of crop and soil science where I belong, student use to travel to the country's research stations, national herbarium, and farmers field to learn more about the courses and agriculture technologies.

My name is **Tizita Moges** and I am from Ethiopia. I have had a very good time at LUANAR. There are well experienced and hardworking lecturers here. I would say LUANAR is academically as well as socially strong.

Students Support Network and Services

The University through the office of Director of Student's Affairs will offer professional and impartial information and advice to current and prospective students on:

- Discretionary and statutory funding
- Eligibility criteria and how to apply for funding
- Advice on money management and budgeting
- Individual one to one appointments for students who want to take control of their finances and develop their budgeting skills
- Funding opportunities you can apply for
- Student loan and repayment
- Funding for disability costs or childcare costs.
- Bank accounts and bank loan.

Disability

LUANAR is committed to developing inclusive environment for all students.

We welcome enquiries from prospective students with specific learning difficulties such as dyslexia, sensory impairments, mobility difficulties, medical conditions or mental health concerns.

We encourage you to disclose any disability or medical condition to ensure that appropriate support is arranged for you.

If you have a disability and wish to find out more about the support we provide, call: +265 01 277 222 ext 156 or Fax: +265 01 277 364 (Att: Director of Students Affairs).

Personal Tutor

Your personal tutor is an academic member of staff assigned to you for the duration of your study. They will support your academic progress and the development of your transferable skills, and assist with any welfare issues. You will have regular contact with your personal tutor and you will be encouraged to see them whenever you need support.

It is essential for all International students to register with University Medical Scheme (UNIMED) while studying at LUANAR.

Student Health

Welcome to the University Health Service. We aim to provide a confidential service to support your physical and mental wellbeing. On the University campuses, there are fully qualified and experienced medical staff available

We provide:

- Advice and support concerning asthma, diabetes and epilepsy.
- Advice, counseling and support concerning contraception and pregnancy
- Advice and treatment for examination stress.
- Information on Travel vaccination.
- Sexual Health information and referrals.
- Assessment and Treatment of minor injuries and ailment.
- HIV Testing and Counselling.

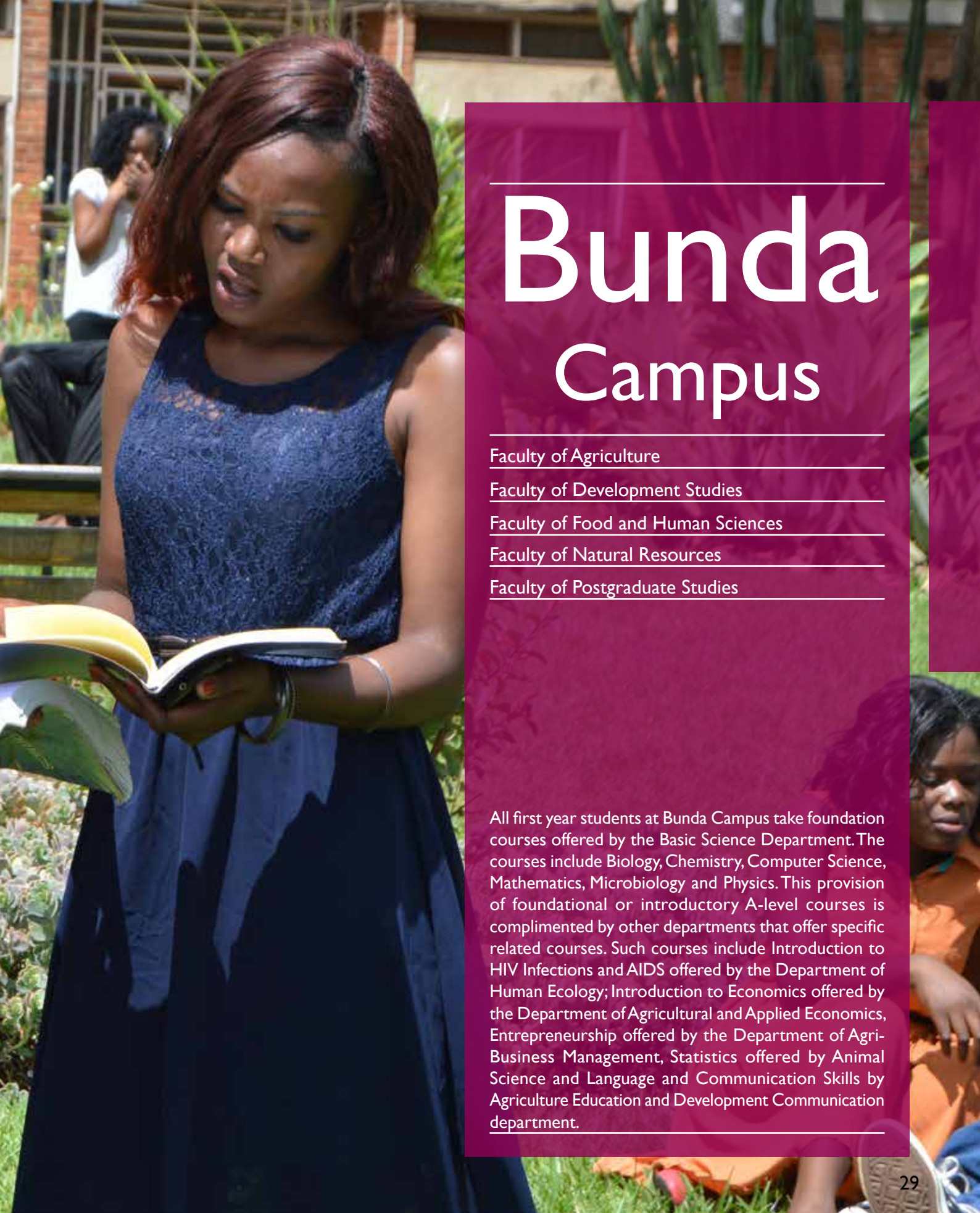
Each student is encouraged to apply for a UNIMED Card and the forms are available at the campus clinic.

For more information, call: +265 01 277 222 ext 167 or Fax: +265 01 277 364 (Att: Chief Nursing Sister)

Banking Services

The University has banking facilities; students can open bank accounts, and access other banking services.

academic focus



Bunda Campus

Faculty of Agriculture

Faculty of Development Studies

Faculty of Food and Human Sciences

Faculty of Natural Resources

Faculty of Postgraduate Studies

All first year students at Bunda Campus take foundation courses offered by the Basic Science Department. The courses include Biology, Chemistry, Computer Science, Mathematics, Microbiology and Physics. This provision of foundational or introductory A-level courses is complimented by other departments that offer specific related courses. Such courses include Introduction to HIV Infections and AIDS offered by the Department of Human Ecology; Introduction to Economics offered by the Department of Agricultural and Applied Economics, Entrepreneurship offered by the Department of Agri-Business Management, Statistics offered by Animal Science and Language and Communication Skills by Agriculture Education and Development Communication department.

Faculty of Agriculture

The Faculty of Agriculture is the oldest of the five faculties at LUANAR. It has five departments namely; Agricultural Engineering, Crop and Soil Sciences, Animal Science, Horticulture and Veterinary Medicine. This section presents the programmes and selected core courses offered under this faculty.

Departments and Programmes

Department	Programme Name	Duration
Agricultural Engineering	BSc Agricultural Engineering	4 years
	BSc Irrigation Engineering	
Crop and Soil Science	BSc Soil Science	4 years
	BSc Seed Systems	
	BSc Agronomy	
	BSc Agriculture	
Horticulture	BSc Horticulture	4 years
	BSc Biotechnology	
Animal Science	BSc Animal Science.	4 years
	Doctor of Veterinary Medicine	5 years
	Diploma in Dairy Science and Technology	2.5 years

Entry requirements

- Malawi School Certificate of Education (MSCE)/International General Certificate of Secondary Education (IGCSE) or other internationally recognized.
- Qualifications comparable to 'O' level certificate with at least six credits including English Language, Mathematics, Physical Science (or General Science) and Biology (or Agriculture) obtained in 2013, 2012, or 2011.
- The following is the adaptation of IGCSE results for admission purposes A*= 1; A = 2; B = 3; C = 5; D = 7; EFG = 8
- Candidates who failed to satisfy the general entry requirements in the previous two years but successfully improved their grades after re-sit for up to a maximum of four subjects in following two years may use their supplementary statements for accumulating credits
- Selection will be based on the aggregate of the best six subjects.

Entry requirements for Doctor of Veterinary Medicine are:

- Natural science students (First year complete or above), CGPA of 2.7 and above.
- Graduates of Animal health, Animal production, and related natural science fields.
- Diploma holders with two years work experience.

Agricultural Engineering Department

The Agricultural Engineering Department was established at Bunda College of Agriculture in 1972 and has the mandate of teaching, conducting research, and providing outreach and consultancy services in irrigation and agricultural engineering.

The department takes a leading role in the promotion of agricultural production through the development and introduction of appropriate engineering technologies and practices for the sustainable production, distribution, and processing of biological products such as crops and livestock. The department places a strong emphasis on research and firmly believes that a research-oriented atmosphere enhances the quality of the teaching and learning process. The department welcomes partnership with industry as one way of linking its teaching and research with industrial needs.

The mission of the Agricultural Engineering Department is to advance, promote and disseminate the knowledge and application of engineering needed to efficiently produce, distribute, and process biological products while conserving natural resources, preserving environmental quality, and ensuring the health and safety of people. The following are programmes offered by the department:

BSc Agricultural Engineering	
Year	Courses
2	Soil and Water Conservation, Mathematics, Workshop Practice and Technology, Electricity and Rural Electrification, Principles of Irrigation, Thermodynamics, Surveying.
3	Design & Analysis of Experiments, Hydrology and Agro meteorology, Fluid Mechanics & Hydraulics, Soil Mechanics, Statics and Strength of Materials, Farm Power & Machinery, Instrumentation and Control Systems, Introduction to Geographic Information Systems, Processing & Storage Technology, Construction Drawing, Design & Analysis of Experiments, Energy and Power Systems Design,
4	Agricultural Machinery Systems Design, Energy and Power Systems Design, Heat & Mass Transfer Food Process Engineering, Agricultural Waste Management, Irrigation & Drainage Systems Engineering, Land Use Planning, Management of Agricultural Engineering Projects, Structural Design, Water Supply and Sanitation

BSc Irrigation Engineering	
Year	Courses
2	Construction Drawing, Introduction to Statistics, Crop Husbandry, Soil and Water Conservation, Mathematics, Surveying, Civil Engineering Procedures & Quantity Surveying, Construction Methods, Principles of Irrigation, Fluid Mechanics.
3	Hydrogeology, Processing & Storage Technology, Surface Irrigation Systems Design, Hydrology and Agro meteorology, Design & Analysis of Experiments, Soil Mechanics, Engineering Hydraulics, Computation Methods in Irrigation Engineering, Hydraulic Structures, Introduction to Geographic Information Systems, Hydrogeology, Surface Irrigation Systems Design
4	Geotechnics, Drainage Systems Design, Irrigation Scheme Management, Pressurised Irrigation Systems Design, Environmental Management of Irrigation Projects, Irrigation Equipment and Machinery, Land Use Planning, Irrigation Water Management, Human Resources Management, Structural Design, Water Supply and Sanitation

Crop and Soil Sciences Department

The mission of the Crop science department is to provide high quality tertiary training and generate technologies for the industry and farming sector through teaching, collaborative research and consultancy in crop and soil sciences in order to contribute significantly to food security, poverty alleviation and environmental protection. The following are programmes offered by the department:

BSc General Agriculture

Year	Courses
2	Soil and Water Conservation, Botany, Biochemistry, Botany, Principles of Soil Science, Biochemistry, Introduction to Livestock Management, Principles of Animal Health, Principles of Irrigation.
3	Design and Analysis of Experiments, Soil Chemistry and Fertility, Introduction to Extension, Plant Physiology, Principles of Plant Pathology, Processing and Storage Technologies, Farm Power and Machinery, Farm Structures and Facilities, Feeds and Feeding,
4	Agronomy of Industrial Crops, Agricultural Entomology, Ruminant Production, Project Planning, Monitoring & Evaluation, Hydrology and Agrometeorology, Mushroom Production Technologies, Plant breeding, Pasture and Range Management, Land Use Planning, Monogastric Production, Integrated Agriculture-Aquaculture Systems and Human Resources Development Management.

BSc Soil Science

Year	Courses
2	Introduction to Soil Microbiology, Crop Husbandry, Introduction to Statistics, Biochemistry, Surveying, Soil and Water Conservation, Introduction to Extension, Principles of Soil Science, Geology, Cropping Systems, Principles of Irrigation, Agricultural Meteorology, Biochemistry.
3	Soil Biology, Soil Genesis and Morphology, Soil Mechanics and Cultivation, Design & Analysis of Experiments, Geographical Information Systems (GIS) and Remote Sensing, Agroforestry Technologies, Tropical and Sub Tropical Soils, Environmental Soil Physics, Plant Physiology, Soil Mineralogy, Soil Organic Matter, Remote Sensing Applications,
4	Soil Fertility and Fertilizers, Soil Survey and Land Productivity Evaluation, Environmental Impact Assessment, Project Planning and Appraisal, Integrated Soil Fertility Management, Nature and Management of Problem Soils, Soil Classification and Agro-tech Transfer, Soils and Chemical Pollution and Land Use Planning.

BSc Seed System	
Year	Courses
2	Entrepreneurship, Agricultural Meteorology, Principles of Soil Science, Crop Husbandry, Principles of Irrigation, Introduction to Statistics.
3	Genetics, Design and Analysis of Experiments, Group Dynamics, Soil and Water Conservation, Seed Enterprise Development, Financing & Marketing, Horticultural seed production, Plant Physiology, Participatory Approaches in Extension & Rural Development, Seed Physiology, Seed Enterprise Development, Horticultural seed production, Farm Structures and Mechanization,
4	Post harvest seed management, Plant Genetic Diversity, Seed Production of Field Crops, Plant Biotechnology, Human Resource management and development, Household Food Security Issues, Plant propagation methods and techniques, Project Planning, Monitoring and Evaluation, Seed health.

BSc Agronomy	
Year	Courses
2	Crop Husbandry, Soil and Water Conservation, Soil and Water Conservation, Principles of Horticulture, Cropping Systems, Botany, Agricultural Meteorology, Introduction to Livestock Management, Biochemistry.
3	Design & Analysis of Experiments, Soil Biology and Biochemistry, Genetics, Plant Biotechnology, Chemistry, Insect Biology and Ecology, Pasture Agronomy, Principles of Plant Pathology, Processing & Storage Technologies.
4	Seed Science & Technology, Agronomy of Industrial Crops, Crop Ecology, Plant breeding, Soil Fertility and Fertilizers, Weed Science, Applied Entomology and Land Use Planning.

Animal Science Department

The Department of Animal Science is one of the five departments within the Faculty of Agriculture. The vision of the department is to be a centre of excellence in Animal Science while its mission is to advance and promote knowledge and skills, self-reliance and sound character in animal science for sustainable livestock production and utilization improving income, food security and nutrition conservation and management of animal biodiversity, the environment and natural resources through Teaching and Training, Research, Outreach and Consultancy in Response to National and International needs. The following are programmes offered by the department:

BSc Animal Science

Year	Courses
2	Farm Practical Work, Anatomy of Domestic Animals, Farm Attachment, Biochemistry, Agricultural Economics, Introduction to Statistics, Microbiology, Entrepreneurship, Crop Husbandry, Principles of Animal Health, Animal Physiology, Introduction to Animal Genetics, Livestock Production Systems
3	Animal Science Research Project, Principles of Animal Nutrition, Ani-mal Breeding, Animal Behaviour and Welfare, Farm Attachment, Farm Business Management, Introduction to Extension, Design and Analysis of Experiments, GIS and Remote Sensing, Animal Science Industrial Attachment, Feeds and feeding, Environmental Physiology, Livestock Production Economics, Farm Power and Machinery, Farm Structures, Pasture Agronomy
4	Animal Science Research Project, Dairy Production, Beef Production, Goat and Sheep Production, Poultry Production, Pig Production, Eq-uine Production, Rabbit & Non-conventional Animal Production, Farm Animal Genetic Resources Management, Meat Science & Technology, Pasture and Range Management, Animal Ranching, Dairy Science and Technology, Animal Biotechnology, Human Resource Management & Development, Project Planning, Monitoring and Evaluation

Doctor of Veterinary Medicine

Year	Courses
1	Veterinary Anatomy, Veterinary Biochemistry, Veterinary Physiology, Veterinary Histology, Principles of animal Nutrition.
2	Veterinary Microbiology, Veterinary Parasitology, Veterinary Systemic pathology, Veterinary Ethics and Animal welfare, Genetics and animal Breeding, Veterinary Immunology and Biotechnology, Special Pathology, Veterinary Pharmacology and Therapeutics.
3	Veterinary Pharmacology and Therapeutics, Veterinary General medicine, Veterinary General surgery and anesthesiology, Theriogenology, Veterinary Clinical diagnosis, Large animal internal medicine, Veterinary Operative surgery, Theriogenology, Veterinary Toxicology, Animal Behavior (Ethology), Veterinary Diagnostic imaging.
4	Veterinary Public health (animal Product and byproduct), Small animal medicine, Poultry, Bee and Fish Diseases, Small animal medicine, Veterinary Clinical Pathology, Clinical practice.

Diploma in Dairy Science and Technology

Year	Courses
1	Introduction to Livestock Management, Farm Practice, Food and Nutri-tion, Dairy Chemistry, Dairy Microbiology, Introduction to Dairy Pro-duction and Management, Anatomy and Physiology of Dairy Animals
2	Introduction to Statistics, Farm Practice, Farm Planning and Record keeping, Pasture and Feeding for Dairy animals, Dairy Herd Health and Welfare' Farm Structure and Equipment, Dairy Economics, Dairy Pro-cessing and Technology I, Dairy Production systems, Dairy Cattle Breed Improvement
3	Farm Practice, Dairy Processing and Technology II, Participatory Dairy Extension Methods, Water Resource and Waste Management, Dairy Quality Management, Sensory Evaluation of Foods.

Horticulture Department

The Department of Horticulture was initially part of the Department of Horticulture and Forestry until 2014 when it was delinked and moved to the Faculty of Agriculture. The Mission for the Department of Horticulture is to advance knowledge, skills and entrepreneurship in horticulture for sustainable food production, good nutrition and improved income of rural and urban population through teaching, research, extension and consultancies. The following are programmes offered by the department:

BSc Horticulture	
Year	Courses
2	Crop Husbandry, Botany, Land Resources management and Conservation, Vegetable Production, Mushroom Production,
3	Floriculture, Genetics, Insect Biology and Ecology, Design & Analysis of Experiments, Fruit Production, Post-harvest physiology and handling of Horticultural crops, Root and Tuber Crops production, Seed production of horticultural crops, Plant Physiology.
4	Biotechnology and its Applications to Horticultural Crops, Current Issues & advances in Horticulture, Landscape Development and Management, Horticultural Plantation Crops Production, Spices and herbs production, Agroforestry, Horticulture Crops Improvement, Horticulture crops protection, Project planning, monitoring and evaluation, Integrated Agric. & aquaculture Systems and Human Resources.

BSc Biotechnology	
Year	Courses
2	Molecular Entomology, Molecular Biology, Cell Biology, Microbiology, Genetics, Molecular Pathology, Principles and applications of tissue culture, Food Chemistry, Botany, Animal Physiology, Plant Breeding,
3	Immunology, Ethics and bio-safety in biotechnology, Enzymology, Design and Analysis of Experiments, Animal breeding, Animal Biotechnology, Plant Biotechnology, Molecular Genetics, Bioinformatics, Virology, Genomics, Genetic Engineering
4	Population Genetics, Food and Feed Biotechnology, Proteomics, Evolutionary genetics, Microbial Genetics, Phyto-medical technologies, Social and Economic Aspects of Biotechnology, Current Topics in Biotechnology, Environmental Biotechnology, Genetic engineering for bio-energy and Human Resource Management and Development.

Faculty of Development Studies

The Faculty of Development Studies was established in 2012 at LUANAR. The faculty has five departments namely; Agriculture Education and Development Communication, Agricultural and Applied Economics, Extension and Rural Development and Agribusiness Management. This section presents the programmes and selected core courses offered under this faculty.

Departments and Programmes

Department	Programme Name	Duration
Agriculture Education and Development Communication	BSc Agriculture Education	4 years
	BSc Agriculture and Development Communication	
Agricultural and Applied Economics	BSc Development Economics	4 years
	BSc Agricultural Economics	
Extension	BSc Agricultural Extension	4 years
	BSc Agricultural Extension	
Agribusiness Management	BSc Agri business Management	4 years
	BSc Agribusiness Enterprise Development and Microfinance	

Entry requirements

- Malawi School Certificate of Education (MSCE)/International General Certificate of Secondary Education (IGCSE) or other internationally recognized.
- Qualifications comparable to 'O' level certificate with at least six credits including English Language, Mathematics, Physical Science (or General Science) and Biology (or Agriculture) obtained in 2013, 2012, or 2011.
- The following is the adaptation of IGCSE results for admission purposes A*= 1; A = 2; B = 3; C = 5; D = 7; EFG = 8
- Candidates who failed to satisfy the general entry requirements in the previous two years but successfully improved their grades after re-sit for up to a maximum of four subjects in following two years may use their supplementary statements for accumulating credits
- Selection will be based on the aggregate of the best six subjects.

Agriculture Education and Development Communication Department

This department was established in 1993 to offer Language and Communication Skills courses to undergraduates. It has two sections; Development Communication (DC) and Agriculture Education. Through these sections, the department offers two undergraduate programs; BSc. Agriculture Education and BSc. Agricultural Development Communication. It also offers a Masters' degree program; MSc. Agriculture Education. Currently, therefore, the department offers communication skills courses to all students and trains secondary school agriculture teachers. The following are programmes offered by the department.

BSc Agriculture Education	
Year	Courses
2	Educational Psychology, History of Education, Agricultural Economics, Principles of Irrigation, Principles of Horticulture, Philosophy of Education, Adolescent Psychology, Science Education Methods, Education and National Development.
3	Instructional Media and Technology, Educational Research Methods, Sociology of Education, Farm Business Management, Crop Husbandry, Educational Administration and Management, Processing and Storage Technology, Farm Power and Machinery, Testing, Measurement and Evaluation, Plant Breeding, Project Planning, Monitoring and Evaluation,
4	Curriculum Theory and Development, Agricultural Systems and Rural Development, Crop Ecology, Household Food Security Issues, Special Needs Education

BSc Agriculture and Development Communication	
Year	Courses
2	Crop Husbandry, Principles of Irrigation, Writing for Mass Media, Agricultural Photo-Journalism, Mass Media Survey, Audience Theory and Analysis, Livestock Management, Principles of Soil Science, Rural Sociology, Public Speaking and Argumentation.
3	Development Communication, Theories and Practice, Desktop Publishing & Web design, Magazine Production and feature writing, New media and ICTs, Research Methods for Social Sciences, Farm Radio Production, Legal and Ethical Issues in Agricultural Communication, Communication and Behavior Change, Empowerment and Poverty Reduction, Participatory Approaches in Extension, Pasture Agronomy,
4	Campaign Design, Advertising and Management, Public Relations and Advertising in Agriculture, Leadership in strategic Communication, Agricultural Systems and Rural Development, Household Food Security Issues, Project Planning Monitoring and Evaluation, Contemporary Issues in Media, Intercultural Communication, News Editing, Scientific News Feature Writing, Project Planning Monitoring and Evaluation.

Extension Department

The Department offers one BSc, one MSc and one PhD programmes. Whilst taking courses from the department of Extension, our students also take courses from other departments. The vision of the Department is to become a Centre of excellence in training, research outreach and consultancy in agricultural extension and rural development within Malawi and the region. Its mission is to advance and promote knowledge and practical skills in extension and rural development through teaching, research, outreach and consultancies with the aim of promoting agricultural production, rural incomes and ultimately livelihoods improvement for the majority of small holder's farmers in Malawi and the region. The following are programmes offered by the department.

BSc Agricultural Extension/BSc Agricultural Extension	
Year	Courses
2	Agricultural Economics, Crop Husbandry, Quantitative Research Methods and Data Analysis, Principles of Marketing, Principles of Irrigation, Demography and Economic Development, Rural Sociology, Family and the Environment.
3	Value Chain Analysis, Radio and ICT for Rural Development, Production and Use of Communication Technology, Farming Systems and Livelihood Analysis, Extension and Training Methods, Processing and Storage Technology, Gender, Agriculture and Rural Development, Community Development, Participatory Approaches in Extension and Rural Development, Rural Organizations, Management of Extension and Rural Development Programmes, Group Dynamics.
4	Food and Agricultural Policy Analysis, Soil Fertility Management, Monitoring and Evaluation in Extension and Rural Development, Extension Policy and Program Development, Agrarian Change and Rural Development, Training for Transformation and Rural Development, Contemporary Issues in Agriculture and Extension.

Agribusiness Management Department

The Department of Agribusiness Management is one of the departments in the Faculty of Development Studies of Lilongwe University of Agriculture and Natural Resources. The Department, whose core activities are teaching, research and outreach was created in 2005. It offers two BSc programmes, one MSc (with options) programme. The following are programmes offered by the department.

BSc Agribusiness Enterprise Development and Microfinance

Year	Courses
2	Entrepreneurship, Agricultural Economics, Introduction to Financial Accounting, Business Organisations, Fundamentals and Methodologies of Microfinance, Crop Husbandry, Communication Skills III, Organisational Behaviour, Agricultural Economics, Managerial Accounting, Principles of Marketing, Social Psychology, Micro Finance Theory, Introduction to Livestock Management.
3	Econometrics, Research Methods for Social Sciences, Business Policy, Business Finance, Farm Business Management, Value Chain Analysis, Business Operations, Agricultural Trade Theory and Policy, Principles of Taxation, Cooperative Development and Management, Theories of Economic Growth & Development
4	Industrial Attachment/ Business Practice, Research Project, Business Law, Micro Finance Product Design, Introduction to Strategic Management, Project Planning, Environmental and Natural Resource Economics, Electives (One of the following) Dairy Science and Technology, Fish Processing and Technology, Microfinance Theory and Practice, Food and Agricultural Policy Analysis, Project Monitoring and Evaluation, Financial Markets Operations and Institutions, Human Resources Management , Gender and Development Electives (One of the following) Dairy Science and Technology Economics of Food Security and Sustainable Livelihoods.

BSc Agribusiness Management

Year	Courses
2	Agricultural Economics, Mathematics for Economists, Financial Accounting, Business Organization, Communication Skills, Crop Management, Social Psychology, Agricultural Economics, Managerial Accounting, Principles of Marketing, Introduction to Livestock Management, Crop Husbandry, Organisational Behaviour, Farm Business Management, Research Methods for Social Sciences, Econometrics, Participatory approaches in Extension and Rural Development, Business Policy, Business Finance, Value Chain Analysis, Agricultural Marketing, Theories of Economic Growth and Development,
3	Entrepreneurship, Farm Business Management, Research Methods for Social Sciences, Econometrics., Participatory approaches in Extension and Rural Development, Business Policy, Business Finance, Value Chain Analysis, Agricultural Marketing, Theories of Economic Growth and Development, Participatory Extension Method, Market and Price Analysis, Agricultural Trade Theory and Policy, Processing & Storage Technology, Cooperative Development and Management.
4	Public Finance, Business Law, Environmental and Natural Resource Economics, Fish Processing and Technology, Dairy Science and Technology, Microfinance Theory and Practice, Food and Agricultural Policy Analysis, Operations Research, Project Monitoring and Evaluation, Meat Science and Technology, Human Resources Management, Financial Markets Operations and Institutions.

Agricultural and Applied Economics Department

The department aims to advance and promote knowledge and practical skills in agricultural and applied economics through training, research, consultancies and outreach with the aim of contributing to poverty reduction by promoting efficiency in agricultural production and increased incomes for the majority of farmers in Malawi. The department envisions of becoming a centre of excellence in training, research, outreach and consultancy in Agricultural and Applied Economics within Malawi and beyond. The department also offers courses in the Collaborative MSc Programme in Agricultural and Applied Economics, a regional programme which aims to equip professionals with knowledge and skills essential for transforming the currently underdeveloped agro-food sectors and rural economies of Eastern, Central and Southern Africa to perform well in an environmentally sustainable fashion. The following are programmes offered by the department:

BSc Agricultural Economics

Year	Courses
2	Agricultural Economics, Mathematics for Economists, Statistics for Economists, Financial Accounting, Entrepreneurship, Crop Husbandry, Demography and Economic Development, Soil Water Conservation, Managerial Accounting, Social Psychology
3	Intermediate Micro-economics, Agricultural Production Economics, Agricultural Marketing, Farm Business Management, Research Methods for Social Sciences, Econometrics, Principles of Irrigation, Intermediate Macro-economics, Market and Price Analysis, Agricultural Trade Theory and Policy, Introduction to statistical packages, Theories of Economic Growth and Development, Participatory Approaches to Agricultural Extension & Rural Development.
4	Project Planning and Appraisal, Environmental & Resource Economics, Food and Agricultural Policy Analysis, Agricultural Systems and Rural Development, Agricultural Household Decision Analysis, Agrarian Change and Rural Development, Environmental Impact Assessment, Institutional and Behavioural Economics, Operations Research, Project Monitoring and Evaluation, Food Security and Rural Livelihoods, Micro Finance Theory and Practice, Human Resource Management and Development.

BSc Development Economics

Year	Courses
2	Introduction to Development Economics, Agricultural Economics, Mathematics for Economists, Financial Accounting, Statistics for Economists, Human Nutrition & Food, Quantitative Methods in Human and Social Development, Demography & Economic Development, Managerial Accounting, Rural Sociology
3	Trade and Development, Intermediate Micro-economics, Research Methods for Social Science, Farm Business Management, Agricultural Production Economics, Econometrics, Theories of Economic Growth and Development, Emerging Issues in Development, Empowerment and Poverty Reduction, Intermediate Macro-economics, Introduction to statistical packages.
4	Research Project, Theories of Economic Growth and Development, Agricultural Systems and Rural Development, Poverty and Development Challenges, Project Planning and Appraisal, Environ & Resource Economics, Food and Agricultural Policy Analysis, Environmental Impact Assessment, Gender and Economic Development, Science and Technology Policy Analysis, Health and Development , Food Security and Rural Livelihoods, Social Organization and Development, Institutional and Behavioural Economics, Project Monitoring and Evaluation, Human Resource Management.

Tisetso Mopeli

MSc Extension and Rural Development

The uniqueness of the Faculty of Development studies is the diversity of areas of specialization of its staff. Coupled with comprehensive research and consultancy activities that its staff are involved in, the faculty is just complete. It's basically us students who benefit more from all this.

Faculty of Food and Human Sciences

Food and people drive the passion of the Faculty of Food and Human Sciences (FHS) at LUANAR. The faculty has purposed to be innovative in generating and sharing knowledge in food and human sciences, there-by contributing to the pool of global knowledge for the advancement of human kind. As a public entity within the university, the Faculty is primarily accountable to members of the academic community (students and staff) and the nation.

The academic programs, research and outreach activities carried out by the faculty is focused of people, their health, their food, and how they interact with one another in their families as well as with the wider community and the environment.

The Food, Nutrition and Wellness focus provides students with the opportunity to gain knowledge, skills and experience in planning, developing, implementing and evaluating programs that support and improve healthy and productive living.

Departments and Programmes

Department	Programme Name	Duration
Food Science and Technology	BSc Food Science and Technology	4 years
Human Nutrition and Health	BSc Nutrition and Food Science	4 years
Human Ecology	BSc Gender and Development-	4 years
	BSc Human Science and Community Services	4 years
	Diploma in Youth and Development	2.5 years
	Diploma in Gender and Development	2.5 years

Entry requirements

- Malawi School Certificate of Education (MSCE)/International General Certificate of Secondary Education (IGCSE) or other internationally recognized.
- Qualifications comparable to 'O' level certificate with at least six credits including English Language, Mathematics, Physical Science (or General Science) and Biology (or Agriculture) obtained in 2013, 2012, or 2011.
- The following is the adaptation of IGCSE results for admission purposes A*= 1; A = 2; B = 3; C = 5; D = 7; EFG = 8
- Candidates who failed to satisfy the general entry requirements in the previous two years but successfully improved their grades after re-sit for up to a maximum of four subjects in following two years may use their supplementary statements for accumulating credits
- Selection will be based on the aggregate of the best six subjects.

Entry requirements for Dip in Youth and Development and Dip in Gender and Development are:

- MSCE level candidate with 4 credits and/or two years working experience.

Human Nutrition and Health Department

Just as health citizens are key to national development; adequate nutrition is a key determinant of sound health. The absence of adequate nutrition in all its forms amounts to an intolerable burden that suffocates fulfillment of life goals, enjoyment of life, and the very essence of human survival. As a newly–established Department of Human Nutrition and Health at LUANAR, we have positioned ourselves to become a strategic partner in the nexus between nutrition and health through the generation of knowledge on evidence-based nutrition. Using applied and multidisciplinary approaches, we specifically focus on food, nutrients and other constituents; nutrition and related disorders; determinants of malnutrition; and, nutrition policy and programming. Our passion is driven by the realization that investing in nutrition and health improves productivity and economic growth; promotes intellectual capacity and social development; and ensures longevity for the people living today, and the generation to come. Graduates from the department of Human Nutrition and Health have successful careers in health care, education, food industry, government and nongovernmental sectors to ensure that people are able to select and prepare their food for a healthy living.

BSc Human Nutrition

Year	Courses
2	Introduction to Human Physiology, Introductory Nutrition, Introduction to Food Science, Biochemistry, Introduction to Agricultural Economics, Foods and Their Nutritive Value, Human Growth and Development, Food Microbiology, Sensory Evaluation of Foods, Food Chemistry, Family and the Environment, Introduction to Livestock Management
3	Nutrition Throughout the Lifecycle, Nutrition and HIV & AIDS, Food Selection, Preparation and Management, Principles of Food Engineering, Household Resource Management, Research Methods for Social Science, Design and Analysis of Experiments. Research Project, Assessment of Nutritional Status, Nutrition Extension Education, Food and Consumer, Food Processing and Preservation, Principles of Horticulture, Participatory Approaches in Extension and Rural Development.
4	Industrial Attachment, Research Project, Nutrition and Diet Therapy, Household Food Security, Nutrition in Emergencies, Food Service Management, Public Health Nutrition, Food and Nutrition Planning, Special Topics in Nutrition and Food Sciences, Food Product Development, Gender and Development, Human Resource Management and Development.

Food Science and Technology Department

Food processing and value addition are key elements in the Malawi Government's strategy to achieve the Millennium Development Goal of eradicating extreme poverty and hunger. The newly established Department of Food Science and Technology at LUANAR has positioned itself to be a key partner in providing academic leadership in food science and technology as well as generating knowledge on the qualities of Malawian raw materials, and how they can be safely processed into high value and good quality food products to meet the demands of Malawian and international markets.

A Food Science and Technology degree prepares students for successful careers with the food industry, research, or manufacturing company in the private or government sector. Food science graduates are leaders in food production and processing, quality assurance, sale and marketing of foods, food product development, food science research, and food laws. The need for trained food scientists is growing as consumers demand for convenient, safe, and nutritious food and beverages. Food science provides prospective students with the opportunity to combine biology, chemistry and engineering knowledge to help people to effectively utilize, preserve and market food materials.

BSc Food Science and Technology	
Year	Courses
2	Pilot Plant Experience in Food Processing, Introduction to Food Science, Food Selection, Preparation and Management, Introductory Nutrition, Biochemistry, Introduction to Statistics, Agricultural Economics, Food Microbiology, Sensory Evaluation of Foods, Food Chemistry , Food Processing and Preservation.
3	Principles of Marketing, Research Project, Principles of Food Engineering, Food Analysis, Food Safety Management, Food Laws, Regulations and Ethics, Legume and Oilseed Processing Technology. Dairy Products Technology, Design and Analysis of Experiments, Consumer and Society, Food Biotechnology, Post-harvest Fruit and Vegetable Technology , Meat and Fish Processing Technology, Cereal Foods Processing Technology, Gender and Development.
4	Human Resources Management, Food Service Management, Food Product Development, Food Packaging, Fruits, Vegetables and Plantation Foods Technology, Business Finance, Emerging and Topical Issues in Food Science and Technology.

Human Ecology Department

Families and their resources are very important to the development of a nation. In order to achieve Millennium Development Goals, the effort has to start at family level. Human ecology helps in understanding the relationships between humans, resources and nature, all intimately connected in a web of interactions. The newly established department of Human Ecology at LUANAR has positioned itself to be a key partner in providing academic leadership in human sciences and community services at local and global levels.

BSc Human Development and Community Services	
Year	Courses
2	Social Psychology, Introduction to Perspectives in Human Development, Introduction to Human Physiology, Introduction to Food Science, Introductory Nutrition, Introduction to Statistics, Agricultural Economics, Family and the Environment, Prenatal Growth and Development, Introduction to Social Work, Introduction to Clothing and Textiles, Consumer and Society, Human and Social Development Analysis, Demography and Economic Development, Management.
3	Industrial Attachment , Research Project, Household Resource Management, Infant and Early Childhood Growth and Development, Housing and the Environment, Nutrition in the Lifecycle, Food Selection, Preparation and Management, Group Dynamics and Rural Organizations, Research Methods for Social Science, Research Project, Middle Child and Adolescent: Growth & Development, Family Health and Wellness, Nutrition Extension Education, Textile Design and Environment, Community Development, Communication and Behavioral Change, Assessment of Nutritional Status.
4	Design, Implementation & Evaluation of Human Support Programmes, Adult Development and Aging, Household Food Security Issues, Nutrition and HIV and AIDS, Social Impact Assessment, Food Service Management Professional Practice in Human Sciences and Community Service, Child and Parent Relationships, Gender and Development, Family Policy and Law, Seminar in Human Science and Community Services, Public Health Nutrition, Human Resource Management ,Project Planning Monitoring and evaluation.

Human Ecology Department (Continued)

BSc Gender and Development

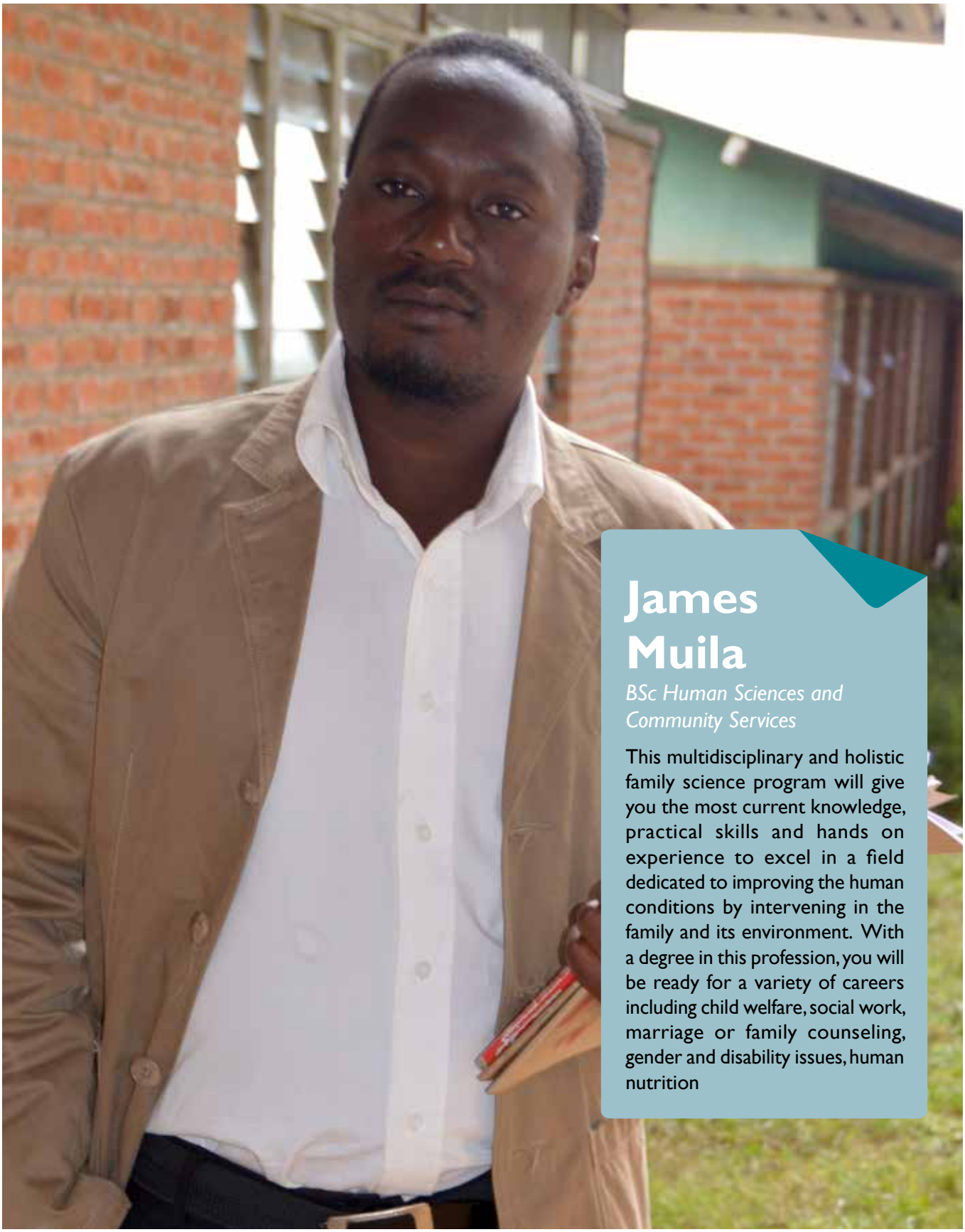
Year	Courses
2	Socio Psychology, Introduction to Gender and Development, Theoretical Perspectives in Gender, Supervised Gender Project, Gender and Communication, Introduction to Perspectives in Human Development, Introductory Nutrition, Agricultural Economics, Gender and Reproductive Health, Gender, Culture and Sexuality, Gender Human Rights and Governance, Family and its Environment, Introduction to Social Work, Human and Social Development Analysis, Demography and Economic Development.
3	Gender Analysis, Gender Mainstreaming, Social Policy, Planning and Administration, Gender Based Violence, Nutrition in the Lifecycle, Group Dynamics and Rural Organizations, Research Methods for Social Science, Legal Aspects in Gender, Community Development, Public Health Nutrition, Participatory Approaches in Extension and Rural Development, Empowerment and Poverty Reduction, Gender and Natural Resource Management.
4	Human Resource Management, Gender Responsive Budgeting, Gender, Agriculture and Food Security, Gender Policy and Programmes in Malawi, Gender and Leadership

Diploma Gender and Development

Year	Courses
1	Introduction to Gender Studies, Foundations in Food and Nutrition, Introduction to Gender Studies, Introduction to Economics, Principles of Adult Education, Introduction to Perspectives in Human Development, Statistics and Computing, Theoretical Perspectives in Gender, Introduction to Business Organizations, Introduction to Sociology.
2	Action Research, Nutrition for Vulnerable Groups, Food Selection, Preparation and Management, Gender, Human Rights and Governance, Gender, HIV and Reproductive Health, Introduction to Social work, Demography and Economic Development, Gender and Development, Social Research Methods, Introduction to Gender and Communication, Food Processing, Preservation and Storage, Introduction to Human Resource Management, Sustainable Development and Environmental Issues, Principles of Community Development,
3	Practicum

Diploma Youth and Development

Year	Courses
1	Learning Processes, Language and communication skills, Young People and Society, Introduction to HIV infection and AIDS, Principles and Practice in Youth in Development Work, Working with People in their Communities, Family and its environment, Commonwealth Values for Youth Development, Gender and Development, Integrated Care for Orphaned and Vulnerable Children, Promoting Enterprise and Economic Development, Supervised Enterprise Project, Youth and Health, Sustainable Development and Environmental Issues, Conflict Resolution Strategies and Skills, Policy Planning and Implementation, Project Planning, Monitoring and Evaluation, Management Skills



James Muila

BSc Human Sciences and Community Services

This multidisciplinary and holistic family science program will give you the most current knowledge, practical skills and hands on experience to excel in a field dedicated to improving the human conditions by intervening in the family and its environment. With a degree in this profession, you will be ready for a variety of careers including child welfare, social work, marriage or family counseling, gender and disability issues, human nutrition

Faculty of Natural Resources

The Faculty of Natural Resources comprises of Aquaculture and Fisheries Science, Environmental Sciences and Management and Forestry departments. This section presents the programmes and selected core courses offered under this faculty.

Departments and Programmes

Department	Programme Name	Duration
Aquaculture and Fisheries Science	BSc Aquaculture and Fisheries	4 years
Environmental Sciences and Management	BSc Environmental Science	4 years
	BSc Natural Resources Management: Wild Life and Ecotourism	
	BSc Natural Resources Management: Land and Water	
Forestry	BSc Forestry	4 years
	BSc Agroforestry	4 years

Entry requirements

- Malawi School Certificate of Education (MSCE)/International General Certificate of Secondary Education (IGCSE) or other internationally recognized.
- Qualifications comparable to 'O' level certificate with at least six credits including English Language, Mathematics, Physical Science (or General Science) and Biology (or Agriculture) obtained in 2013, 2012, or 2011.
- The following is the adaptation of IGCSE results for admission purposes A*= 1; A = 2; B = 3; C = 5; D = 7; EFG = 8
- Candidates who failed to satisfy the general entry requirements in the previous two years but successfully improved their grades after re-sit for up to a maximum of four subjects in following two years may use their supplementary statements for accumulating credits
- Selection will be based on the aggregate of the best six subjects.

Aquaculture and Fisheries Science Department

The Aquaculture and Fisheries Science Department was established following the need for technical human resources in aquaculture and fisheries. The aims of the department include; producing graduates with an in-depth understanding of underlying principles related to Aquaculture and Fisheries Science and producing graduates with aquaculture and Fisheries research and extension capabilities. The following are programmes offered by the department.

BSc Aquaculture and Fisheries	
Year	Courses
2	Fish Biology, Surveying, Introduction to Genetics, Microbiology, Biochemistry , Introduction to Statistics, Culture of Fresh water Fish, Fish Taxonomy and Systematic, Fish Anatomy and Physiology, Rural Sociology, Ecology, Agricultural Economics, Entrepreneurship.
3	Fish Genetics, Fish Population Dynamics and Stock Assessment, Fish Nutrition & Feeds, Research Methods in Fisheries, Engineering Hydrology, Design and Analysis of Experiments, Research Project, Aquaculture Engineering, Fish Breeding & Reproduction, Fish Disease and Parasites, Aquatic Ecology, Limnology & Oceanography, Fishing Technology, Principles of Fish Behaviour, Environmental and Natural Resources Economics.
4	Fish Processing, Aquaculture & Fisheries Extension, Aquaculture & Environment, Fisheries Project Management, Policy Development and Analysis, Environmental Impact Assessment, Mariculture, Aquaculture Economics and Marketing, Fisheries Management, Integrated Agriculture-Aquaculture Systems.

Forestry Department

The Department of Forestry was initially part of the Department of Horticulture and Forestry. The vision of the Department of Forestry is to be LUANAR's center of excellence in training, research, extension and consultancies in forestry within Malawi and globally. It is one of the departments in the Faculty of Natural Resources. The following are programmes offered by the department.

BSc Forestry	
Year	Courses
2	Silviculture, Ecology, Statistics for Natural Resources Managers, Biochemistry, Genetics, Forest Botany, Physiology of woody plants, Forest Mensuration and Inventory, Forest Entomology, Wood Science , Extension for Natural Resources Managers, Land Resources Management and Conservation, Geographical Information Systems (GIS) and Remote Sensing,
3	Agroforestry Technologies, Community Forestry for Rural Development, Quantitative Methods in Natural Resources, Wood Utilization and Technology, Applied Research Methods and Technical Writing, Forest Economics, Tree Improvement, Environmental and Natural Resources Economics, Participatory Approaches in Forest Management, Apiculture, Forest Harvesting and Engineering, Remote sensing applications, Watershed and Wetlands Management
4	Research Project, Forest Marketing, Policy Development and Analysis for NRM, Forest Management, Forest Pathology, Environmental Impact Assessment, Utilisation of Non-Timber Forest Products, Gender and Natural Resources Management, Climate change and Environmental Forestry, Monitoring & Evaluation, Human Resources Management & Development.

BSc Agroforestry	
Year	Courses
2	Entrepreneurship, Introduction to Statistics, Principles of Horticulture, Soil & Water Conservation, Principles of Agroforestry, General Ecology, Principles of Soil Science, Forest Mensuration and Inventory, Silviculture, Land Resources Conservation.
3	Principles of GIS and Remote Sensing, Design & Analysis of Experiments, Genetics, Pasture Agronomy, Agrobiodiversity Management, Applied Research Methods and Technical Writing, Forest Economics, Tree Improvement, Plant Physiology, Participatory Approaches and Forest Management, Apiculture, Forest Pathology.
4	Agroforestry Research Project, Forest Policy & Law, Integrated Soil Fertility Management, Climate change mitigation using land use Management, Woodlot Management & Biofuels, Non- Timber Forest Products, Agroforestry Technologies, Pasture and Range Management, Project Planning, Monitoring & Evaluation, Human Resources Management & Development

Environmental Sciences and Management Department

The Department of Environmental Sciences and Management is one of the three departments in the Faculty of Natural Resources. The aims of the department include; teaching technical and management skills leading to a Bachelor of Science degrees in Natural Resources Management and Environmental Science, conducting useful research on national environmental and natural resources problems and providing a forum for examining problems in environment and resource use through outreach and consultancy services. The following are programmes offered by the department.

BSc Environmental Science

Year	Courses
2	General Ecology, Ecotourism, Biochemistry, Microbiology, Environmental and physical geography, Pollution science, Indigenous knowledge in agriculture and natural resources management, Biodiversity conservation, Environmental statistics, Atmospheric sciences. Principles of soil science,
3	Environmental Analytical Chemistry, Environmental and Ecological Mathematics, Innovation systems in environmental management, Environmental toxicology, Remote sensing and GIS, Applied research technology and technical writing skills, Student attachment, Solid waste management, Population and environment, Landscape ecology, Climate change sciences, Environmental and natural resources economics, Ecosystems management.
4	Policy development and analysis, Agriculture and environment, Environmental simulation modeling, Environmental impact assessment, Environmental management, Human Resource management and development, Environmental education and communication, Water and wastewater treatment, Project planning, monitoring and evaluation Water supply and sanitation.

BSc Natural Resources Management (Wildlife and Ecotourism/ Wildlife and Water)

Year	Courses
2	Extension for Natural Resources management, General Ecology, Ecotourism, Botany, Environment and Physical Geography, Statistics for Natural Resources managers, Habitat Ecology and Management, Indigenous knowledge in agriculture and natural resource management, Land Resources Management and Conservation, Atmospheric Science, Ecotourism Business and Marketing, Biodiversity Conservation, Mineral Resources Management.
3	GIS and Remote Sensing, Ornithology Tourism, Engineering hydrology, Research project, Applied research methods and Technical Writing Skills, Wildlife Conservation, Quantitative Methods In Natural Resources Management, Disaster Risk management, Energy Resources Management, Environmental and Ecological Mathematics, Innovation Systems in Environmental Management, Tourism and Sustainable Development, Human-Wildlife Conflict Management, Water Resources Management Watershed and Wetlands Management, Population, Environment And Resources, Climate Change Science, Environment and Natural Resources Economics, Ecosystem Management, Population Ecology and Management, Hydrogeology,
4	Environmental Simulation Modeling , Environmental Impact Assessment, Policy Development and Analysis, Ecotourism Planning and Management, Tourism Policy and Practice, Sustainable land management, Land administration, Natural Resources Use & Management, Landscape Ecology, Monitoring and Evaluation, Environmental Education and Communication, Land Tenure and Policies, Land use planning, Water supply and sanitation, Water Governance and Policy

Faculty of Postgraduate Studies

The Faculty of Postgraduate Studies is responsible for the coordination of all post graduate programmes at LUANAR. This section presents the all the postgraduate programmes and selected core courses offered by the university.

Departments and Programmes

Department	Programme	Duration
Agricultural Engineering	MSc in Irrigation Engineering	2 years
Animal Science	MSc in Animal Science	2 years
	PhD in Animal Science (by Research)	4 years
Crop and Soil Sciences	MSc in Agronomy (Agronomy – Agronomy, Agronomy-Plant breeding)	2 years
	MSc in Soil Science	2 years
	MSc in Crop Protection	2 years
	MSc in Seed Science	2 years
Horticulture	MSc in Horticulture	2 years
Food Science and Technology	MSc in Food Science and Technology	2 years
Human Nutrition and Health	Post graduate Diploma in Dietetics	
	MSc in Dietetics	2 years
Human Ecology	MSc in Gender and Development	2 years
Agriculture Education and Development Communication	MSc Agriculture Education	2 years
Agricultural and Applied Economics	MSc Development and Natural Resource Economics	2 years
	MSc Agricultural Economics	2 years
	PhD Agricultural and Applied Economics	2 years
Extension	MSc Rural Development and Extension	2 years
	PhD Rural Development and Extension	2 years
Agribusiness Management	MSc Agribusiness Management	2 years
Aquaculture and Fisheries Science Department	MSc Aquaculture	2 years
	MSc Fisheries	2 years
	PhD Aquaculture & Fisheries Science	2 years
Environmental Sciences and Management	MSc Environment and Climate Change Science	
	PhD Environmental Management	2 years
Forestry	MSc Forestry	2 years
	MSc Social Forestry	2 years
	MSc Agro forestry	2 years

Entry requirements

Entry requirements are specific to each programme. Please check for programme details to find out more or visit www.luanar.ac.mw

Nozza Chingola Mpesi

MSc Human Nutrition

My experiences at LUANAR have widened my knowledge perimeters in many aspects including statistics, nutrition policy analysis, nutrition programmes management and research (to mention a few). I decided to pursue this programme with all my heart because I personally identified a gap of advanced knowledge at my work place in terms of nutrition policy and nutrition programme management hence embarking on this programme to ensure making a difference in the identified gaps. Honestly, I do not regret having attended this programme because I found what I wanted and there is a big market for nutritionists out there.

Animal Science Department

MSc Animal Science	
Core Courses	**Entry requirements**
Seminar, Advanced Animal Nutrition, Quantitative Genetics, Advanced Animal Physiology, Biochemistry, Biometry Research Methods and Design (Biometry and Computing I), Advanced Animal Health, Advanced Pasture & Range Management, Bio-Statistical data Analysis & Biometry and Computing II), Applied Animal Breeding, Livestock Production System & Policies, MSc Research	BSc Animal Science with a GPA of 3.00 or above. Consideration will also be made to those with a GPA of less than 3.0 but with experience
Elective modules	
Agricultural Production Economics, Monitoring and Evaluation of Rural Development Program, Comparative Agriculture & Information Systems, Farm Business Management, Gender Issues & Social differentiations in Rural Development, Agribusiness and Farm Management, Agricultural Marketing, Current and Emerging Issues in Livestock Production, Biotechnology in Animal Breeding, Animal Draught Power, Agro-forestry, Technologies and Practices, Farm Animal Genetic Resources, Instrumentation and Research Methods in Animal Nutrition	

Extension Department

MSc Rural Development & Extension	
Courses	**Entry requirements**
Qualitative Research Methods and Data Analysis in Rural Development, Quantitative Research Methods and Data Analysis in Rural Development, Design and Implementation of Programs, Socio-Political Organizational Change and Rural Development, Management of Rural Development and Extension Programs, Sociology of Agricultural Development, Comparative Agriculture and Information Systems, Theories of Adult Education, Monitoring and Evaluation of Rural Development Programs, Gender, Social Differentiation and Rural Development, Land, Society and Agriculture, Special Topics in Agriculture and Rural Development, Socio Impact Assessment.	Any BSc from LUANAR with at least a credit

Agricultural Engineering Department

MSc Irrigation Engineering	
Courses	**Entry requirements**
Engineering Hydrology, Irrigation agronomy, Ground Water Hydraulics, Statistics for Engineers, Open Channel Hydraulics, Construction Project Management, Engineering Seminar, Hydraulic Structures Design, Hydro Systems Analysis, Advanced Irrigation Systems Design, Advanced Drainage Systems, Numerical Analysis, Geographic Information Systems and Remote Sensing, Computations in Water Resources Engineering, Dam engineering, Environmental Management and Irrigation Systems Management	Bachelor of Science degree preferably in Engineering (Civil, Irrigation, Agricultural, Water Resources Engineering, Water Supply, Environmental Engineering) from a reputable institution and must have achieved a GPA of 3.00 or above.

Horticulture Department

MSc Horticulture	
Courses	**Entry requirements**
Pest and Diseases for Horticultural Crops, Mushroom Science and Technology, Urban Landscape Development and Management, Applied Biochemistry, Advanced Plant Genetics, Advanced Fruit & Vegetable Production, Post-harvest physiology, handling, processing and marketing of horticultural crops, Breeding of Horticultural Crops, Plant Tissue culture and application, Biometry and computing, Biotechnology applications to Horticultural crops, Cut Flower Production and Utilization, Agroforestry Technologies and practices and Food and Agricultural Policy Analysis.	BSc degree from a recognized University in Horticulture, Agronomy, Natural sciences or any of the Biological sciences with at least a strong pass

Agribusiness Management Department

MSc Agribusiness Management	
Courses	**Entry requirements**
Financial Accounting, Quantitative Agribusiness Management Techniques, Strategic Marketing Management Strategic Agribusiness Management, Managerial Economics, Management Information Systems, Micro Economic Theory, Managerial Accounting, Agribusiness Finance, Agribusiness Operations Management, International Agricultural Trade & Policy, Macro Economic Theory, Research Methods for Social Sciences, Environmental and Natural Res. Economics.	Normal entry requirement is a first degree in related fields. Exceptional cases will be considered for those that have two diplomas with one biased towards agriculture.

Aquaculture and Fisheries Science Department

MSc Fisheries	
Courses	**Entry requirements**
Seminar (core), Biometry and Computing (core), Fish Physiology and Bioenergetics (core), Fish Health and Welfare Management (core), Fisheries and Aquaculture Policy and Planning (core), Fisheries Ecology, Fish Population Dynamics and Stock Assessment , Fish biodiversity and Conservation, Fisheries Management, Fish Quality Management (core), Project Development and Management (core), Limnology and Oceanography, Fisheries Technology, Integrated Coastal Resource Management, Fish Genetics and Biotechnology	BSc. in Aquaculture & Fisheries or any other qualification acceptable to the University.

MSc Aquaculture	
Courses	**Entry requirements**
Seminar (core), Biometry and computing (core), Fish Physiology and Bioenergetics (core), Fish Health and Welfare Management (core), Fisheries and Aquaculture policy and Planning (core), Water Quality Analysis and Management, Aquaculture production Systems, Aquaculture Business Management, Fish Quality Management (core), Project Development and Management (core), Fish Nutrition and Feed Technology, Integrated Agriculture Aquaculture Systems, Fish Genetics and Biotechnology (core).	BSc. in Aquaculture & Fisheries or any other qualification acceptable to the University.

Human Nutrition and Health Department

MSc Food Science and Human Nutrition	
Courses	**Entry requirements**
Food Composition and Nutrient Analysis, Food Microbiology, Biometry & Computing, Seminar, Food Manufacturing, Safety & Quality Control of Food, Food Packaging, Food Chemistry, Research Methods, Advanced Human Nutrition, Nutritional Assessment, Nutritional Pathology, Maternal and Child Nutrition, Nutritional Problems, Policy Programmes in Developing Countries, Cereal Chemistry and Technology, Rheology and Texture of Food, Sensory Evaluation of Food, Nutritional Epidemiology, Research and Thesis.	Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution.

MSc Dietetics	
Nutritional Biochemistry: Macronutrients, Global Nutrition Programs, Clinical Dietetics, Nutrition Counseling/Behavior Modification, Seminar, Advanced Medical Nutrition Therapy, Biometric Research Methods and Design, Clinical and Community Placements. Scientific Research writing, Biostatistical Data analysis, Nutritional Epidemiology, Research Methods of Social, Clinical and Community Placements, Thesis	Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution.

Post-graduate Diploma in Dietetics	
Nutritional Biochemistry: Macronutrients, Global Nutrition Programs, Clinical Dietetics, Nutrition Counseling/Behavior Modification, Seminar, Advanced Medical Nutrition Therapy, Biometric Research Methods and Design, Clinical and Community Placements.	Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution.

Forestry Department

MSc Social Forestry	
Courses	**Entry requirements**
Forest Economics and Marketing, Forestry and Rural Development, Climate change and Silvacarbon, Agroforestry Technologies and practices, Advanced Silviculture (tree growth & Modelling), Integrated Forest Protection, Environment and Climate change science, Participatory Forest Resource Assessment, Forest Management Planning, Forest Policy Development and Analysis, Utilization of Forest Resources, Advanced Entrepreneurship, Applied Research Methods for Social Science, Energy Environment and climate change, Remote Sensing and Image Processing.	A minimum of a Bachelor of Science Degree in Forestry, Agroforestry, Social forestry, Tropical Forestry, horticulture, agriculture, crop Science or other relevant biological sciences, with at least a credit pass or a mere pass but substantial years of working experience.

Forestry Department (continued)

MSc Environmental Forestry	
Courses	**Entry requirements**
Seminar, Forest Eco-physiology, Rural Development Forestry, Wood Science and Technology, Research methods, Climate change and Silvacarbon, Soil fertility and Plant Nutrition, Climate change modelling. Elective Courses; GIS Applications in NRM, Agroforestry technologies and practices, Integrated Forest Protection	Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution.

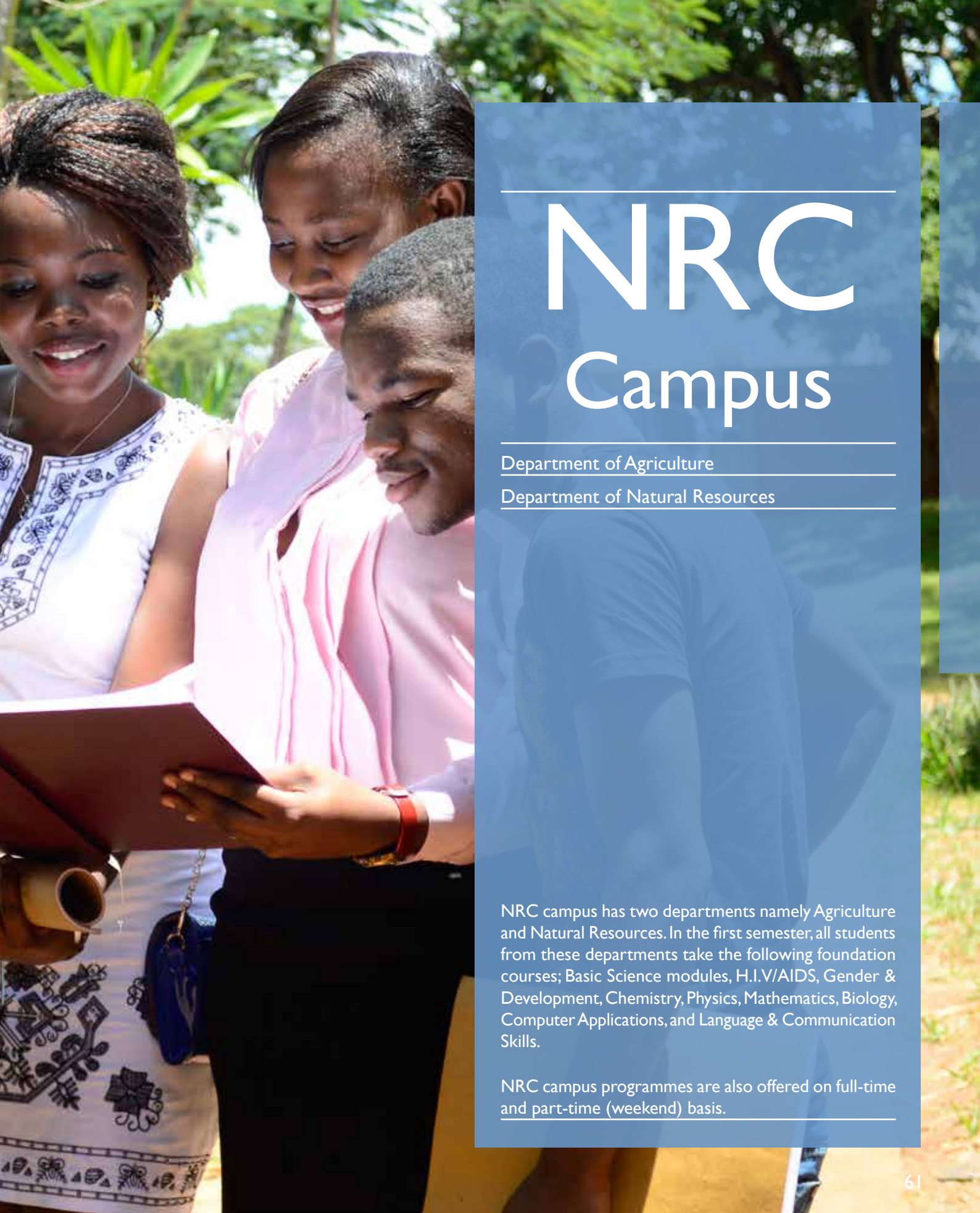
MSc Agroforestry	
Courses	**Entry requirements**
Plant Physiology and Biochemistry, Soil Fertility and Plant Nutrition, Research Methods, Agroforestry Technologies and Practices, Rural Development Forestry, GIS Applications in NRM, Climate change and Silvacarbon. Elective Courses; Plant Biotechnology and its applications, Integrated Forest Protection, Remote Sensing and Image Processing	Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution.

Agricultural and Applied Economics Department

Collaborative MSc Programme in Agricultural and Applied Economics	
The Programme offer students the opportunity to undertake specialised study in one of the following fields: Agriculture and Rural Development, Environment and Natural Resource Management, Agricultural Policy and Trade, and Agribusiness Management	
Core Courses	**Entry requirements**
Microeconomics, Mathematics for Economists, Statistics for Economists, Production Economics, Econometrics, Issues in Agricultural and Applied Economics, Macroeconomics, Research Methods in Agricultural and Applied Economics, Institutional and Behavioural Economics, Organization and Collective Action in Agriculture.	Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution.
Electives Courses under Agricultural and Rural Development	
Agricultural Marketing and Price Analysis, Factor Markets Analysis, Farm Management and Production, Farming Systems and Sustainable Livelihood Analysis.	
Electives Courses under Environmental and Natural Resource Management	
Environmental Valuation and Applications, Environmental Economics and Policy, Natural Resource Economics and Management, Environmental Valuation and Policy, Economics of Climate Change.	
Electives Courses under Agricultural Policy Analysis	
Quantitative Analysis for Agricultural Policy, International Trade and Policy, Food Policy Analysis, Science and Technology Policy Analysis, Gender and Economic Development.	
Electives Courses under Agribusiness Management	
Project Planning and Management, Microfinance and Small Business Management, Agribusiness Supply Chain Management, Agribusiness Marketing Management, Agricultural Finance and Risk Management. Common: Operations Research in Agribusiness Management	

MSc in Agriculture Education (Option A)	
Courses	**Entry requirements**
Educational Research Methods, Education Policy & Planning, Education Leadership and Management, Advanced Technical Writing, Strategic Agribusiness Management, Social Policy Organizational Change & RD, Environment and Climate Change Science, Programme Planning & Evaluation, Understanding Inclusive Education, Economics of Education, Management of rural Development Programmes, Theories of Adult Education, International Agricultural Trade & Policy, Masters thesis	A Bachelor of Science in Agriculture Education or its equivalent from recognized institutions of higher learning. Those with a Bachelor of Science degree in Agriculture with a certificate of Education also satisfy entry requirements for the degree.
MSc in Agriculture Education (Option B)	
Agriculture Education Research Methods, Agricultural Education Policy & Planning, Advanced Technical Writing, Testing, Measurement and Evaluation, Social Policy Organizational Change & RD, Strategic Agribusiness Management, Environment and Climate Change Science, Comparative Agriculture Education, Agriculture Innovation systems, Current & Emerging Issues in Agriculture Education, Management of Rural Development Programmes, Theories of Adult Education, International Agricultural Trade & Policy, Masters thesis	

PhD in Agricultural and Resource Economics (Regional Program)		
Core Courses		**Entry requirements**
Year 1	Nutritional Biochemistry: Macronutrients, Global Nutrition Programs, Clinical Dietetics, Nutrition Counseling/Behavior Modification, Seminar, Advanced Medical Nutrition Therapy, Biometric Research Methods and Design, Clinical and Community Placements. Scientific Research writing, Biostatistical Data analysis, Nutritional Epidemiology, Research Methods of Social, Clinical and Community Placements, Thesis	» At least two years of work experience in the public and private sectors, voluntary/community-based organizations, and international and non-governmental organizations; » A Master's Degree in Economics, Agricultural Economics, Environmental Economics, and related fields from a recognized University; and evidenced by transcripts, diplomas, certificates, etc. » At least one example of scientific publication in any format (print or electronic). The student should describe fully any published or unpublished research, thesis, contributions to the professional or scholarly literature, and other professional or academic experience relevant to an assessment of his or her capacity to pursue doctoral study successfully.
Year 2	Quantitative Methods in Environmental Economics, Global Dimensions, Poverty & Environment, Applied Mathematical Programming, Dynamic Production Supply, Advanced Market & Price Analysis, Advanced Agricultural Marketing & Decision Models, Agricultural Development & Policy, Quantitative Analysis of Agricultural Policy, International Trade, Commerce and Policy, Science, Technology and Development Policy, New Institutional Economics for Smallholder Farmers, Health & Policy Economics	
Year 2-4	PhD Thesis	



NRC Campus

Department of Agriculture

Department of Natural Resources

NRC campus has two departments namely Agriculture and Natural Resources. In the first semester, all students from these departments take the following foundation courses; Basic Science modules, H.I.V/AIDS, Gender & Development, Chemistry, Physics, Mathematics, Biology, Computer Applications, and Language & Communication Skills.

NRC campus programmes are also offered on full-time and part-time (weekend) basis.

Agriculture Department

The Agricultural Department at NRC campus comprises of four key thematic areas of Rural Development, Food & Nutrition, Crop sciences and Animal Health & Production. From these thematic areas, five training programmes emerged and these are: Diploma in Agriculture, Diploma in Food, Nutrition and Livelihood Security, Diploma in Horticulture, Diploma in Animal Health & Production and Bachelor of Science Degree in Food Technology.

Diploma in Agriculture

Year	Modules
1	Basics modules; Working With Rural Communities; Participatory Tools & Techniques; Statistics; Dairy & Beef Production; Poultry Production; Sheep & Goats Production; Soil & Water conservation; Special Project; Farm Practical
2	Agroforestry; Community Based Natural Resources Management; Agricultural Production Estimates; Agrometeorology; Horticultural Crops Production; Irrigation Water Management; Principles of Irrigation; Research Methods, Monitoring and Evaluation; Management of Associations & Cooperatives; Farm Business Management; Group Development & Management; Agricultural Marketing; Field Crops Production; Farm Practical, Special Project; Field Attachment
4	Training Skills for Development Facilitators; Community Nutrition; Crop Protection; Seed Production; Non-Conventional Livestock Production; Farm Power, Machinery & Structures; Plantation Crops; Pig Production; Farm Practical; Special Project; Field Attachment

Diploma in Food, Nutrition & Livelihood Security

Year	Modules
1	Basics modules; Biochemistry; Food, Nutrition & Health; Participatory Tools & Techniques; Setting up Irrigation Schemes; Participatory Hygiene and Sanitation Transformation; Sheep & Goats Production; Community Nutrition2; Farm Practical; Special Project .
2	Research Methods, Monitoring & Evaluation; Farm Business Management; Nutrition Throughout the Life Cycle; Horticultural Crops Production; Food Security; Food Microbiology; Food processing and Preservation; Non-Conventional Livestock Production; Nutrition and H.I.V/AIDS; Field Crops Production; Household Resource Management; Farm Practical; Special Project; Field Attachment
3	Management of Associations & Cooperatives; Training Skills for Development Facilitators; Agroforestry; Community Based Natural Resources Management; Project Planning with livelihood Approach; Child Participation; Poultry Production; Agriculture Marketing; Farm Practical; Special Project; Field Attachment

Diploma in Animal Health & Production	
Year	Modules
1	Basics modules;Working with Rural Communities; Biochemistry; Statistics; Participatory Tools & Techniques;Veterinary Parasitology & Microbiology; Veterinary Anatomy & Physiology; Veterinary Pathology; Special Project; Farm Practical 1
2	Animal Breeding; Farm Business Management; Beef Production & Processing; Research Methods, Monitoring & Evaluation;Veterinary Public Health; Sheep & Goats Production; Veterinary Surgery; Veterinary Reproduction & Obstetrics; Pasture Production & Management; Non-Conventional Livestock Production; Draught, Power, Machinery and Structures; Animal Nutrition and Feed Manufacturing Technology; Special Project; Farm Practical; Field Attachment
3	Animal Diseases and Control; Poultry Production; Veterinary Pharmacology; Management of Associations & Cooperatives; Pig Production; Farm Practical; Special Project; Field Attachment.

Diploma in Horticulture	
Year	Modules
1	Basics modules; Principles of Horticulture; Participatory Tools & Techniques; Working with Rural Communities; Statistics; Nursery Management; Root & Tuber Crops Production; Soil Science; Soil & Water Conservation; Farm Practical; Special Project
2	Vegetable Crops Production; Plant Physiology; Agrometeorology; Herbs & Spices Production; Principles of Irrigation; Intergrated Water Resources Management; Research Methods, Monitoring and Evaluation; Floriculture and Landscaping; Farm Business Management; Agricultural Marketing; Group Development and Management; Fruit Production; Farm Practical;, Special Project; Field Attachment
3	Food Processing & Utilization; Agricultural Production Estimates;Crop Protection;Mushroom Production; Surveying; Protected Cultivation

Agriculture Department (continued)

BSc Food Technology

Bridging Courses

Economics, Food Chemistry I, Introduction to Food Science, Principles of Accounting, Introduction to Food Manufacturing, Meat Science, Statistics and Computing.

Designed for former Diploma students wishing to enroll in the BSc programme. They are to complete bridging courses which contain some prerequisites for them to successfully negotiate the degree program.

Year	Modules
1	Biology; Chemistry; HIV/AIDS, Gender & Development; Language & Communication Skills; Mathematics; Physics; Language & Communication Skills; Mathematics; Microbiology II, Physics II
2	Biochemistry; Introduction to Food Science; Food Chemistry; Food Microbiology; Food, Nutrition & Health; Principles of Food Processing; Economics; Principles of Accounting; Statistics & Computing; Meat Science.
3	Entrepreneurship; Experimental Research Methodology; Food Engineering Technology; Sensory Evaluation of Food; Principles of Small Scale Food Manufacturing; Meat; Poultry & Fish Processing; Cereal Processing Technology; Dairy Processing Technology; Fats & Oils Technology; Food Storage Technology; Food Fermentation Technology; Fruit & Vegetable Technology; Legume Processing Technology
4	Food Product Development; Food Quality Management; Food Analysis; Food Packaging Technology; Food Toxicology; Occupational Health & Safety; Industrial Placement; Research Project; Business Management; Business Operation Management; Contemporary Issues in Food Technology; Management of Cooperatives; Food Laws & Regulations; Internship; Research Project

Diploma in Agriculture Education

Year	Modules
1	Basics modules; Biology/Chemistry; Pig Production; Introduction to Educations Foundations; Agrometeorology; Field Crops Production.
2	History of Education; Horticultural Crops Production; Education Philosophy; Agriculture & Environment; Sociology of Education; Food & Human Nutrition; Science Education; Statistics; Soil & Water Conservation; Experimental Design and Analysis; Beef & Dairy Production; Education Psychology; Science Education; Education Research Methods
3	Farm Business Management; Adolescent Psychology; Curriculum Theory & Practice; Emerging issues in Education; Professional Practice & Ethics; Instructional Media & Technology; Principles of Irrigation; Sheep & Goats Production; Science Education; Mushroom Production; Farm Mechanization; Entrepreneurship; Agriculture Economics; Agricultural Marketing; Special Needs Education; Testing, Measurement & Evaluation; Plantation Crops Production; Education Leadership & Management; Teaching Practice

NRC campus focuses on providing practical client-oriented quality training, consultancy and research services in agriculture, environment and natural resources management to help achieve food security and reduce poverty for sustainable social-economic development through strategic linkages with stakeholders, deployment of state-of-the-art technologies, use of highly competent and motivate personnel and financially viable strategies.

Natural Resources Department

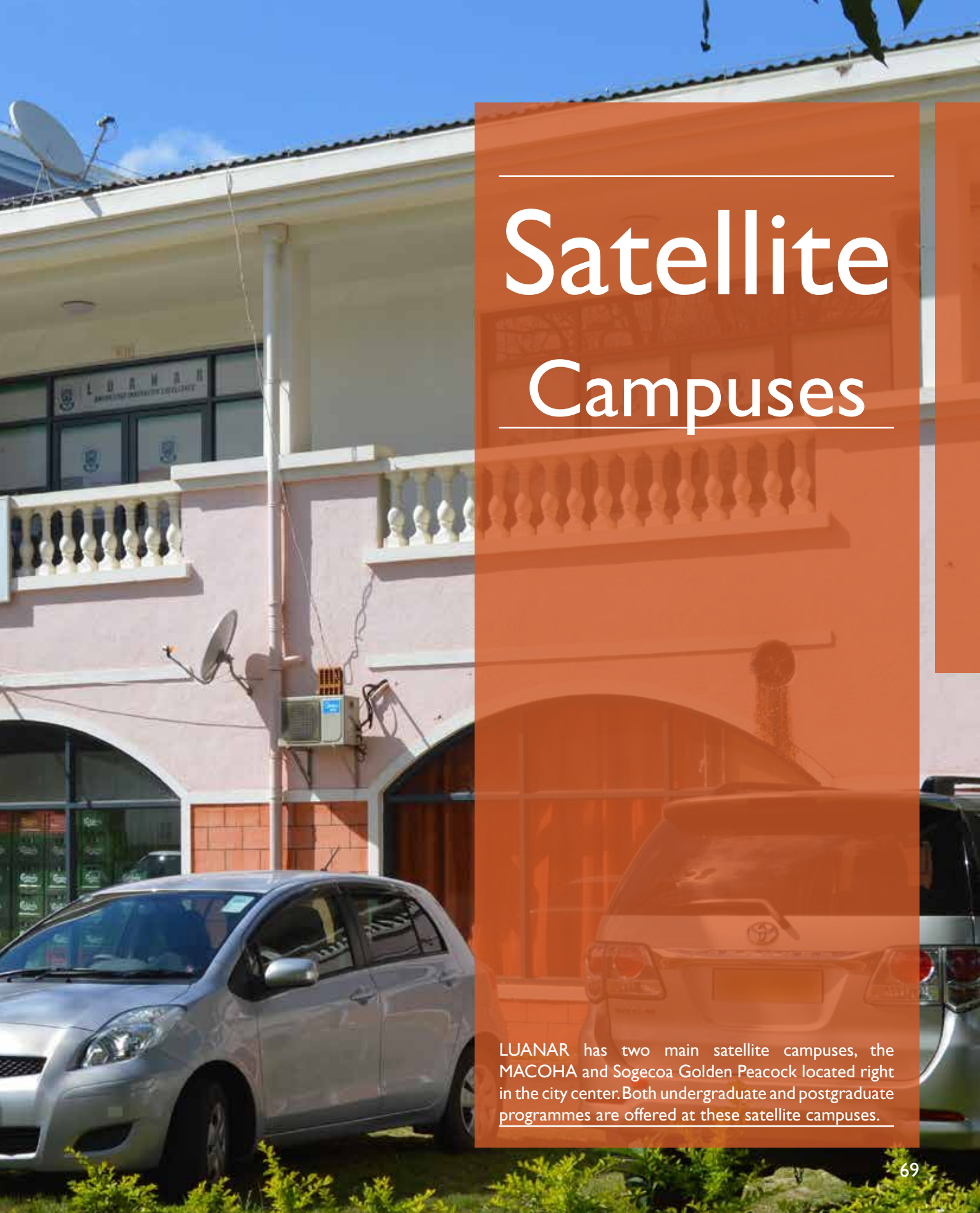
Natural Resources Department comprises two programmes namely: Basics Studies and Natural Resources programmes. It is mandated to build capacity in the areas of Environmental Management, Irrigation Technology and Land Administration with the aim of producing front-line staff in natural resources and agriculture sectors. Training in Natural Resources is geared at providing technical skills and understanding natural resources issues.

Diploma in Irrigation Technology	
Year	Modules
1	Basics modules; Working with Rural Communities; Participatory Tools & Technique; Technical Drawing; Principles of Irrigation; Plant Physiology; Fluid Mechanics; Horticultural Crops Production; Farm Practical; Special Project
2	Surveying; Hydraulics; Irrigation Water Management; Irrigation Systems Design & Layout; Engineering Economics; Research Methods, Monitoring & Evaluation; Farm Power, Machinery & Structures; Management of Associations & Cooperatives; Hydrology & Agrometeorology; Soil & Water Conservation; Contract Law & Quantity Surveying; Farm Practical; Special Project; Field Attachment
3	Field Crops Production; Irrigation Operation & Maintenance; Farm Business Management; Agricultural Marketing; Hydrogeology; Irrigation Scheme Management; Community Based Natural Resources Management; Farm Practical; Special Project ; Field Attachment.

Diploma in Land Administration	
Year	Modules
1	H.I.V/AIDS, Gender and Development; Language & Communication Skills; Mathematics; Data Collection & Analysis; Physics; Computer Applications; Community Sensitization; Introduction to Economics; Basic Land Administration; Cartography; Geographical Information Systems; Land Surveying; Principles of Physical Planning; Cadastral Survey; Land Law & Administration.
2	Introduction to Environmental Management; Good Governance & Administration; Financial Management; Introduction to Remote Sensing; Introduction to Printing; Property & Land Valuation; Quantity Surveying; Land Policy & Management; Planning Law & Development; Property Investment & Appraisal; Building Technology; Introduction to Space Observation; Urbanization & Informal Settlement; Business Administration & Organisation Development; Land Law & Conveyance; Hydrographic & Engineering Survey; Field Attachment
3	Project Planning & Management; National Development Policies and Strategies; Multipurpose Land Information Systems; Transport Planning & Administration; Estate Agency and Auctioneering; Professional Practice & Ethics; Property Development & Management; Field Attachment

Diploma in Environmental Management	
Year	Modules
1	Basics modules; Introduction to Environmental Principles; Working with Rural Communities; Participatory Tools & Technique; Research Methods, Monitoring & Evaluation; Environmental Education & Extension; Soil & Water Conservation; Waste Management; Farm Practical; Special Project
2	Agroforestry; Policy, legal & Institutional Framework; Food Microbiology & Technology; Energy & The Environment; Water Quality, Monitoring & Treatment; Wildlife Management & Conservation; Decentralised Environmental Planning; Environmental Management Systems; Environmental Pollution & Control; Training Skills; Setting up smallholder Irrigation Schemes; Ecosystem Principles & Management; Farm Practical; Special Project; Field Attachment
3	Aquaculture & Fisheries Management; Environmental Impact Assessment; Community Based Natural Resources Management; Environmental Land Use Planning; Integrated Water Resources Management; Sustainable Forestry Management; Farm Practical; Special Project; Field Attachment

LUANAR
KNOWLEDGE INNOVATION EXCELLENCE



Satellite Campuses

LUANAR has two main satellite campuses, the MACOHA and Sogecoa Golden Peacock located right in the city center. Both undergraduate and postgraduate programmes are offered at these satellite campuses.

Programmes Offered

The table below shows programmes currently being offered at the satellite campuses

Undergraduate Programmes	
1	Bachelor of Science in Agribusiness Management
2	Bachelor of Science in Agricultural Extension
3	Bachelor of Science in Agricultural Economics
4	Bachelor of Science in Agricultural Development Communication
5	Bachelor of Science in Development Economics
6	Bachelor of Science in Gender and Development
7	Diploma in Youth Development
8	Diploma in Gender and Development

Postgraduate Programmes	
1	Master of Science in Agribusiness Management
2	Master of Science in Food Science and Technology
3	Master of Science in Human Nutrition
4	Master of Science in Environment and Climate Change
5	Master of Science in Rural Development and Extension

Programme	Requirements	Duration
Diploma Programmes	» Applicants should have an MSCE or O level equivalent with 4 Credit passes one of which must be English. Experience in youth work as an employee or a volunteer is an added advantage.	3 years
Degree Programmes Generic	» Applicants must have a Malawi School Certificate of Education (MSCE)/ International General Certificate of Secondary Education (IGCSE) or other internationally recognized qualifications comparable to 'O' level certificate with at least six credit passes including English Language obtained in 2013, 2012, or 2011. » The following is the adaptation of IGCSE results for admission purposes A*= 1; A = 2; B = 3; C = 5; D = 7; EFG = 8	4 years
Degree Programmes Mature Entry	» MSCE/or equivalent certificate with at least four credits including English plus » Diploma from an accredited institution plus » A minimum of two years working experience in a field related to the desired program.	3 years
Postgraduate Programmes	» Applicants for Master of Science programmes must have a Bachelor of Science Degree in Agriculture or any relevant field from a recognized training institution. All programmes are for 2 years except for Postgraduate Diploma Courses which are for one year.	2 years

Fees for all Masters Degree programmes is MK900, 000 per semester, Bachelor Degree programmes are MK270, 000 per semester and Diploma programmes are MK135, 000 per semester.

At satellite campuses, some programmes are delivered on weekdays, others on weekends while others in the evenings. Application forms can be obtained from the office of the University Registrar or download from our Website: www.luanar.ac.mw.

Admission Arrangements

- Candidates will be placed in various programmes bearing in mind the candidates' choice of programmes and their specific entry requirements.
- Candidates who will fail to compete successfully in the programmes of their choice will only be considered for redirection to the programmes they did not choose if they indicate their willingness to be considered for redirection on the space provided on the application form.

Application Procedure

Application forms can be obtained on written request or in person from the address given below. The Application forms can also be downloaded from the LUANAR website: www.luanar.ac.mw/admissions/ for diplomas, mature and postgraduate students) and www.che.ac.mw for generic undergraduate candidates, and are also available at all District Education Offices throughout the country.

Application Checklist

- Proof fundingRelevant certificates
- References (if required)
- Appropriate application form
- Proof of payment

Applicants are required to deposit a non-refundable application fee as follows: Home applicants - K4,500.00 for those with most recent qualifications, K5, 000.00 for those with qualifications obtained in the previous two years and US200.00 for international applicants.

University Bank Account Details		
	National Bank of Malawi	National Bank of Malawi
Account Name	Bunda Fees Account	NRC Fees Account
Account Type	Current	Current
Account Number	2175762	1848984
Branch	Lilongwe Branch	Lilongwe Branch
Swift Code	NBMAMWMW008	NBMAMWMW008

or

University Bank Account Details	
	NBS Bank
Account Name	LUANAR Fees Account
Account Type	Current
Account Number	0050886475017
Branch	Lilongwe Branch
Swift Code	NBSTMWMW

Duly completed application forms together with a copy of the bank deposit slip bearing the name of the candidate and proof of payment of an appropriate application fee should be sent to the address given below:

The address for obtaining/submitting application forms is:	
Undergraduate Applicants	Diploma, Mature & Postgraduate Applicants
National Council for Higher Education Private Bag B371 Lilongwe 3	The University Registrar LUANAR, Bunda Campus P.O. Box 219, Lilongwe **Attention**: Admissions Office

Fees, Funding and Scholarships

Fees

Tuition fees

Tuition fees cover the cost of registration, study, examinations and recreation facilities. You must arrange funding for your tuition fees and living costs before your studies begin at LUANAR. Detailed information on current fees and the available payment plans are published in full online at www.luanar.ac.mw/fees.

Home or International?

Home or international students are charged differently by all Malawian Universities. Your fees largely depend on your immigration status. If you need a visa and or a study permit for your studies in Malawi then you do not qualify for home fees.

Fees for home students are quoted in local currency (MK) and US Dollars for international students.

When must fees be paid

a. Annual quoted fees in full on enrollment at the start of an academic year; or 50% during enrollment of each semester.

b. If you are sponsored by a recognized agency, you must give your sponsor letter to the University Registry when accepting your offer. You will remain liable for the full fee until this letter is presented to the Registry. Where a sponsor has not paid the fees due, the outstanding debt will revert to the student.

Failure to pay fees debt

Failure to pay, or make appropriate arrangements to pay, all fees and other monies due to the University by the relevant deadline shall lead to loss of student status. Unregistered students will not be allowed to access university facilities until that debt is cleared. The University reserves the right to withhold administration of examinations, degree certificate or transcript. Such debts include outstanding tuition and university accommodation fees, unpaid library charges and/or other amounts owed to the University. By withholding the degree certificate, the University will not be forbidden from pursuing repayment of the debt by, for example, using a debt recovery agency.

Scholarships and Bursaries

The University offers financial assistance opportunities to students basing on availability of funding by various sponsors, performance of the student and financial need. The available options include but are not limited to:

1. CABMACC Scholarship

This scholarship is awarded to female students by. CABMACC with funding from the Royal Kingdom of Norway.

2. JTI Scholarship

JTI Malawi provides scholarships to best second to fourth year self-sponsored students from Agriculture Sciences with the overall goal of developing a talent pool of future tobacco experts in Malawi. The scholarship also supports student practical research projects on tobacco production and provide holiday Internship programs for some supported students.

3. TEST Scholarship

Tertiary Education Scholarship Trust (TEST) for Malawi is a charitable Trust in Malawi whose aim is to provide full or partial funding to bright but financially needy students to undertake new and/or continuing tertiary educational studies at Malawi public universities and polytechnics.

4. J'Africa Foundation of Netherlands

These merit awards are granted to a cohort of best overall students each semester.

NB
CLAIM
MABUKU

Living Costs

Budgeting and Cost of Living

We aim to give you a good idea of costs, but much depends on your own personal choices – therefore, allow some margin to cover this as well as having something kept aside for the unexpected things which always catch us out when we least expect.

a. You cannot make significant savings on these figures. Do not plan on managing on figures less than these.

b. Life is more expensive at the beginning of your studies. Many items (books, items for room etc.) are needed almost immediately on arrival.

You must have at least this money every month to comfortably stay at any of our campuses. The figures in the table below are based on 2015 estimates.

ITEM	BUNDA		NRC		CITY CAMPUS	
	MWK	$ (USD)	MWK	$ (USD)	MWK	$ (USD)
Accommodation	16,000.00	35	26,000.00	58	20,000.00	44
Food	42,000.00	93	42,000.00	93	42,000.00	93
Groceries	10,000.00	22	10,000.00	22	10,000.00	22
Telephone and Internet	6,000.00	14	6,000.00	14	6,000.00	14
Stationery	4,000.00	8	4,000.00	8	4,000.00	8
Recreation	8,000.00	16.5	8,000.00	16.5	8,000.00	16.5
Return trip to town	1500.00	3	1000.00	2	1500.00	3

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