

# Master of Science in Sustainable Agriculture

CROP AND SOIL SCIENCES DEPARTMENT

www.luanar.ac.mw/aquafish

## PROGRAMME DESCRIPTION

The MSc Sustainable Agriculture program is designed to train researchers in understanding and working within sustainable agricultural practices. Through a curriculum focused on systems thinking and analysis, students are challenged to view agriculture holistically. The program covers various courses aimed at enhancing agricultural productivity while addressing key pillars of sustainability, including economic, social, and environmental considerations.

## CAREER PROSPECTS:

Sustainable agriculture researcher, Agricultural extension officer, Environmental consultant, Policy analyst in agriculture and sustainability, Sustainable food systems coordinator, Agricultural educator or trainer, Conservation specialist, Organic farming advisor, and Sustainable agriculture consultant.

## PROGRAMME STRUCTURE

The MSc Sustainable Agriculture major combines a core curriculum of sustainable agriculture courses with a wide range of electives focusing on agronomy, seed science, crop protection, and plant breeding. To qualify for the degree of MSc Sustainable Agriculture, the student must complete satisfactorily a program of study with a combined total of not less than 30 credits, plus submission of a thesis.



## PROGRAMME COURSES

### Year 1 Courses

| # | Course Code | Course Name Course | Type |
|---|---|---|---|
| | **SEMESTER I COURSES** | | |
| 1 | AGR75103 | Sustainable Agriculture and Agro-ecological Farming Systems | Core |
| 2 | AFS71113 | Integrated Agriculture Aquaculture Systems | Elective |
| 3 | AGR75100 | Agriculture Seminar I | Core |
| 4 | NRM 513 | Climate Change, Agriculture and Development | Core |
| 5 | AGR75105 | Soil Fertility Management for Sustainable Agriculture | Core |
| 6 | CSS75101 | Agrometeorology and Climatology | Elective |
| 7 | GED75201 | Gender, Agriculture and Climate Change | Elective |
| 8 | AAE 553/ CAEE 5134 | Farming Systems and Sustainable | Elective |
| 9 | CSS75101 | Research Methods in Agriculture | Core |
| 10 | AGF75101 | Agroforestry Technologies and Practices | Elective |
| | **SEMESTER II COURSES** | | |
| 1 | AGR75201 | Agriculture Seminar II | Core |
| 2 | AAE/ CAEF 512 | Agricultural Policy Analysis | Elective |
| 3 | CPN75200 | Crop Protection Seminar II | Core |
| 4 | AGR75202 | Sustainable Livestock Production System | Core |
| 5 | CPN75204 | Integrated Pest Management | Core |
| 6 | CSS75008 | Advanced Crop Ecology | Elective |
| 7 | FOR75207 | Biodiversity, Ecosystems Functions and Services | Core |
| 8 | FOR 516 | GIS Applications in Natural Resources Management | Elective |
| 9 | NRM75202 | Climate Change and Ecosystem Services | Elective |

### Year 2 Courses

| # | Course Code | Course Name Course | Type |
|---|---|---|---|
| | **SEMESTER I COURSES** | | |
| 1 | AGR75908 | Sustainable Agriculture Proposal | Core |
| 2 | AGR75909 | Sustainable Agriculture Thesis Report | Core |

# Fees Structure

## MSc (International)

| Category | Item | Year I ($) | Year 2 ($) | Total ($) |
|---|---|---|---|---|
| Administrative Fees | Application | 20.00 | | 20 |
| | Registration | 25.00 | 25.00 | 75 |
| | Library | 100.00 | 100.00 | 300 |
| | Medical | 245.00 | 245.00 | 735 |
| | Examination | 65.00 | 65.00 | 195 |
| | Sub-Total | 455.00 | 435.00 | 1325 |
| | | | | |
| Tuition fees | Tuition Fee (Average of Local and regional Universities) | 2,619.00 | 2,619.00 | 5,238.00 |
| | External and Internal examiner's fees and postage | 250.00 | 250.00 | 500.00 |
| | Supervisory Fees | 250.00 | 250.00 | 500.00 |
| | **Sub-Total** | **3,574.00** | **3724.00** | **7,088.00** |
| | | | | |
| **Research cost** | Research | 2,200.00 | 2,200.00 | 4,400.00 |
| | | | | |
| Student Welfare (7) | Settling-in allowance | 95.00 | | 95.00 |
| | Setting-out allowance | | 95.00 | 95.00 |
| | Holiday Allowance | 60.00 | 60.00 | 120.00 |
| | Personal Allowance | 2,835.00 | 2,835.00 | 5,670.00 |
| | Sub-Total | 2,990.00 | 2,990.00 | 5,980.00 |
| | **GRAND TOTAL** | **9,244.00** | **9,224.00** | **18,468.00** |

## MSc (Local)

| Category | Item | Year I ($) | Year 2 ($) | Total ($) |
|---|---|---|---|---|
| Administrative Fees | Application | 20 | | 20 |
| | Registration | 25 | 25 | 50 |
| | Library | 100 | 100 | 200 |
| | Medical | 245 | 245 | 490 |
| | Examination | 65 | 65 | 130 |
| | Sub-Total | 455 | 435 | 890 |
| | Tuition Fee (Average of Local and regional Universities) | 1,545.00 | 1,565.00 | 3,110.00 |
| | External and Internal examiners fees and postage | 250 | 250 | 500.00 |
| | Supervisory Fees | 250 | 250 | 500.00 |
| | Sub-Total | 2,500.00 | 2,500.00 | 5,000.00 |
| | | | | |
| Research costs | Research | 2,200.00 | 2,200.00 | 4,400.oo |
| | | | | |
| Student Welfare | Settling-in allowance | 95 | | 95.00 |
| | Settling-out allowance | | 95 | 95.00 |
| | Holiday Allowance | 60 | 60 | 120.00 |
| | Personal Allowance | 2,835.00 | 2,835.00 | 5,670.00 |
| | Sub-Total | 2,990.00 | 2,990.00 | 5,980.00 |

## ENTRY REQUIREMENTS:

A candidate shall either hold a relevant bachelor degree of Lilongwe University of Agriculture and Natural Resources or a qualification from an approved institution of higher learning, deemed to be equivalent to an BSc degree of Lilongwe University of Agriculture and Natural Resources.A candidate shall not be admitted to MSc degree unless s/he has obtained at least 2.6 cGPA or equivalent aggregate marks in undergraduate studies.

## CURRICULUM DELIVERY:

The programme will be delivered through face-to-face mode.

## LOCATION OF PROGRAM:

**LUANAR Bunda College**

## TECHNIQUES OF DELIVERY:

Lectures and demonstrations, Laboratory, classes, Industrial visits, Tutorials, Seminars, Assignments and exercises, Process design research projects (coursework) and Work Integrated Learning



# a University with endless possibilities


**Africa Center of Excellence in Aquaculture and Fisheries Science – LUANAR**

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